

10	20	30	40	50	60
MDPAEAVLQEK	(ALKFMNSSERE	DCNNGEPPRK	LIPEKNSLRQTY	NSCARLCLNO	ETVCLA
70	80	90	100	110	120
STAMKTENCVA	AKTKLANGTSSM	IVPKQRKLSAS	SYEKEKELCVKY	(FEQWSESDQ\	ÆFVEHL
130	140	150	160	170	180
ISQMCHYQHGH	HINSYLKPMLQRI	DF I TAL PARGL	DHIAENILSYU	.DAKSLCAAEL	VCKEWY
190	200	210	220	230	240
RVTSDGMLWK	KLIERMVRTDSL	WRGLAERRGWO	GQYLFKNKPPDO	GNAPPNSFYRA	ALYPKII
250	260	270	280	290	300
QDIETIESNWF	RCGRHSLQRIHC	RSETSKGVYCL	LQYDDQKIVSGU	RDNTIKIWDH	KNTLECK
310	320	330	340	350	360
RILTGHTGSVL	.CLQYDERVIIT	GSSDSTVRVWI	OVNTGEMLNTL	[HHCEAVLHLF	RFNNGMM
370	380	390	400	410	420
VTCSKDRSIAV	WDMASPTDITLI	RRVLVGHRAA\	/NVVDFDDKYI\	/SASGDRTIK\	WNTSTC
430	440	450	460	470	480
EFVRTLNGHKF	RGIACLQYRDRL	VVSGSSDNTIF	RLWDIECGACLF	RVLEGHEELVF	RCIRFDN
490	500	510	520	530	540
KRIVSGAYDGK	(IKVWDLVAALD	PRAPAGTLCLF	RTLVEHSGRVFF	RLQFDEFQIVS	SSSHDDT
550 ILIWDFLNDPA	560 AQAEPPRSPSR	TYTYISR	·		

FIG.3A

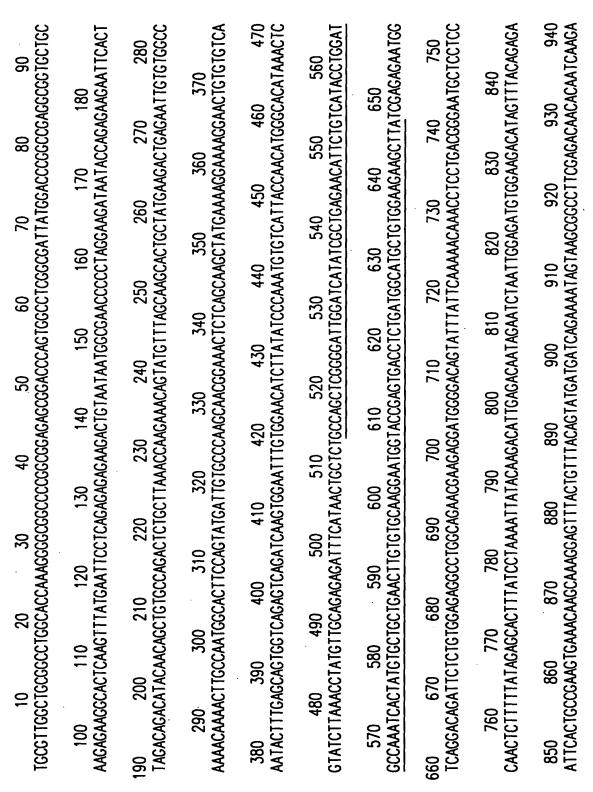


FIG.3B

950 960 970 980 990 1000 1010 1020 1030  TCTGGGATAAAAACACATTGGAATGCCAAGCCCATACAGGTTCAGTCCTCTCTCT
1130 AG1 1330 CA(C) 1130 CA(C) 1130 CA(C) 123 CA(C) 123 CA(C) 1600

FIG.3C

80 AATAACCA	790 1800 1810 1820 1830 1840 1850 1860 1870 1880 ACACTGACCTCATACTTGCCCATTAAAGTTGCGGTATTTAACGTATCTGCCAATACCAGGATGAGCAACAACAATCAAAC	1890 1900 1910 1920 1930 1940 1950 1960 1970 ACTGCCCAGTTTCCCTGGACTAGCCGAGGAGGGGGGGTTTGAGACTCCTGTTGGGACAGGTTGGTT	CCTCCTTT	
1700 1710 1720 1730 1740 1750 1760 1770 1770 1780 CTCATCTGGGACTTCCTAAATACCA	1870	1910 1920 1930 1940 1950 1960 1970	1980 1990 2000 2010 2020 2030 2040 2050 2060	2150
	VACAGTAACAA	GAGGAGCAGGCCTTTGAGACTCCTGTTGGACAGTTGGTCTGCAGTCGCCCAGGACGGTCT	AGCACAACTGACTGCTTCAGGAAGATGTCTTCTATCAATTGTGAATGATTGGAACTTTTAAACCTCCCCCCCC	AAAAAA
1770	1860	o	2050	2140
ACCTACATO	TGAGCAACA	SCAGTCGC	TAAACCTCC	IGCCAGAAAA
1760 1770	1840 1850 1860	195	2040	0
CGAACATACACCTACATCTCCAG	CGTATCTGCCAATACCAGGATGAGCAACA	.GTTGGTCT	IGGAACTTT	GTGTTTTG
1750	10	1940	2030	2130
rcccttctc	ATCTGCCAA	IGGGACACA	STGAATGATT	ATATATTTAGT
1740	184	1930	2020	2090 2100 2110 2120 2130 2140 2150 1TCCCATTGGTTCCAGACAAAAAAAAAAAAAAAAAAAAAA
CCCCCCCTT(	TTTAACGT/	ACTCCTGT	CTATCAATTG	
1730	1820 1830	1920	,	2110
CAAGCTGAACO	ACCCATTAAAGTTGCGGTATTTAA	GCTTTGAG	16TCTTCT	CAAAGGTG
)	1820	910	2010	2100
SCTGCCCAA	CATTAAAG	AGGAGCAGG	ATCAGAAGATC	SGTTCCAGA
1720	1810	0	2000	2090
ATGATCCAGC	CCCAGGACO	ACTAGCCG/	GTGCTGCT	TTCCCATT(
1710	800	1900	1990	STITE
CTTCCTAA	CATACTTG	TTCCCTGGA(	NCTGCTTCA	
1700	790 1800	1890	1980	2070 2080
ATCTGGGA	ACACTGACCTCATA	TGCCCAGTTT	CACAACTGA	CACCTCTGCACCTA
CTC	175 TA(	TA(	AGC	2070 CA(

FIG.3D

MERKDFE			40 GAVQLRHLSNI	50 NLETLLKRDFL	60 KLL
PLELSFY	70 YLLKWLDPQTI		100 VWQTACKNLGI	110 WQIDDSVQDAL	120 .HWK
KVYLKA			160 KDGLLCTGSDI	170 DLSAKLWDVST	180 GQC
VYGIQTH	190 HTCAAVKFDE		220 ARTQHFRGHT(	230 GAVFSVDYNDE	240 LDI
LVSGSAE			280 QKCKVKSLLH	290 SPGDYILLSAD	300 KYE
IKIWPIO	310 GRE INCKCLK		340 KYIVCSSALGI	350 LYQWDFASYDI	360 LRV
IKTPE I	370 ANLALLGFGD		400 LISRWPLPEYI	410 RESKRGSSFL <i>A</i>	420 GEH

PG

## FIG.4A

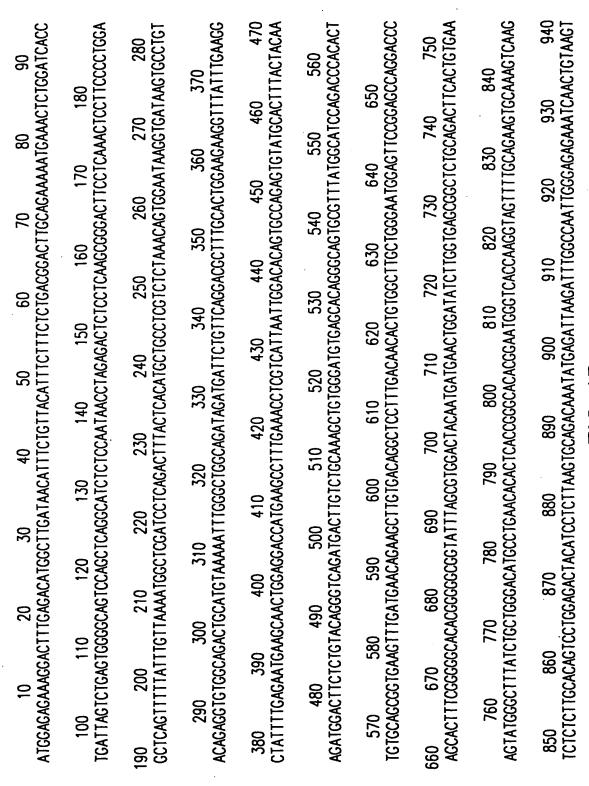


FIG.4B

950 960 970 980 990 1000 1010 1020  TTAAAGACATTGTCTCTGAGGATAGAAGTATCTGCCTGCAGCCAAGACTTTTTGATGGCAAATACATTGTCTGTAGT  1040 1050 1060 1070 1080 1090 1100 1110 1120  STCTCTACCAGTGGGACTTTGCCAGTTATGATATTCTCAGGGTCATCAAGACTCCTGAGATAGCAAACTTGGCCTTGCTTG	1030 TCAGCACT	TGGAGAT	1220 TACAGGG	o CACCAGC	1410 GCCTGCG	
950 960 970 980 1020 1020 1010 1020 1020 1010 1020 1100 1110 1110 1120 1120 1120 1120 120	) CTGTAGTT	1120 STTGGCTT	110 IGCCAGAG	131 STCTTTGC	1400 3CTGCCGG	
950 960 1000 1010  GCTTAAAGACATTGTCTGTCTCTGAGAAGTATCTGCCTGC	1020 FACATTGT	1110 IGGCCTTG(	) STGGCCTC	1300 36667T60	390 ICACTTTG	
950 960 1000 GCTTAAAGACATTGTCTGTGTGTGTGTGTGTCTGCCTGCC	1010 ATGGCAAA	100 AGCAAACT	1200 ATTAGTCG(	1290 SAATGACA(	) CCCTCAC	ICA
950 960 970 980 990 GCTTAAAGACTTGTCTCTCTGAGGATAGAAGTATCTGCCTGC	1000	)	1190	280	1380	1470
	ICATTTGA	CCTGAGATA	AGAGCCTGA	SATGGGCA(	AGCCACCA(	IGGTATCA
950 960 970 980 8	390	109C	1180	)	1370	460
GCTTAAAGACATTGTCTGTCTCTGAGGATAGAAGTATCTGCCTGC	SCAAGACTI		SCGCACAGA	ATGGACTG(	ACACCATGA	TCACCTAA
950 960 970 980 GCTTAAAGACATTGTCTGTCTGTGGGATAGAAGTATCTGTAAAGACATTGTCTGTGTGTTTTTTTT	)	1080	170	127	1360	0
	SCCTGCAG	CAGGGTCA	ATGGACTT(	CTGGCTGA	CACGCCTG	CAAAGTTC
950 960 970 GCTTAAAGACATTGTCTGTCTCTGAGGATAG, 1040 1050 1060 TGGTCTCTACCAGTGGGACTTTGCCAGTTATG 130 1140 1150 1160 ATCTTTGCCTGTTTTGACAACCGCTACC 1230 1240 1250 AATCAAAGAGGCTCAAGCTTCCTGGCAGG 1320 1330 1340 1 ATGCTGACCACAGTATTCACCTGGTTGT GGTTTTGGGTGCACCTCTGCGCACTAGGACTTTGGGTGCTTGT	980	1070	)	1260	350	145
	AAGTATCT	SATATTCT(	TGTACATC	CGAACATC	SGAAGGAGI	SCATGAAC
950 960 GCTTAAAGACATTGTCTGTCTCTCTG 1040 1050 11 TGGTCTCTACCAGTGGCACTTTG 130 1140 1150 AATCAAAGAGGCCTCAAGCTTCG AATCAAAGAGGCCTCAAGCTTCG 1320 1330 1340 ATGCCTGACCACAGTATTCACCTG ATGCCTGACCACGTGTTTCACCTG	970	J60	116C	1250	o	1440
	SAGGATAGA	CCAGTTATO	CCCTACC	CTGGCAGG	SCTCTTCTC	ACGCGACT
950 GCTTAAAGACATTGT0 1040 1050 TGGTCTCTACCAGTG0 ATCTTTGCCCTGCTG 1230 1330 ATCAAAGAGAGGCTT 1320 1330 ATGCCTGACCACAGT ATGCTTGGGTGCACC	960	)	1150	240	134	1430
	STGTCTCT	SGACTTTG	TTTGACAA	CAAGCTTC	ATTCACCT	TCTGCGGC
1040 1040 1GCTCTC 130 ATCTTTG ATCCTG ATCCTG	350 3ACATTGT(	1050 TACCAGTG	1140 SCCTGCTG	3 SAGAGGCT	1330 ACCACAGT	420 3GTGCACC
<del></del>	GCTTAAA	1040 TGGTCTC	1130 ATCTTTG	123 AATCAAA	1320 ATGCCTG	1 66TTTT6

FIG.4C

		40 GNLLQDIILQ\	50 /FKYLPLLDRA	60 HAS
		100 LIKQIIKRHS	110 SNHLQYVSFKV	120 DSS
_		160 (SHFISALTV)	170 /FVNSKSLSSL	180 KID
			230 RELALNYHLLS	240 DEL
25 LLALSSEKH		280 /DAF [RHSPK\	290 /NLVMYFFLYE	300 EEF
31 DPFFRYEIF		.340 .vvcanglrpl	350 DEELIRIAER	360 CKN
37 LSAIGLGEC		400 .IPDQKYSLEC	410 )IHWEVSKHLG	420 RVW
FPDMMPTW				

FIG.5A

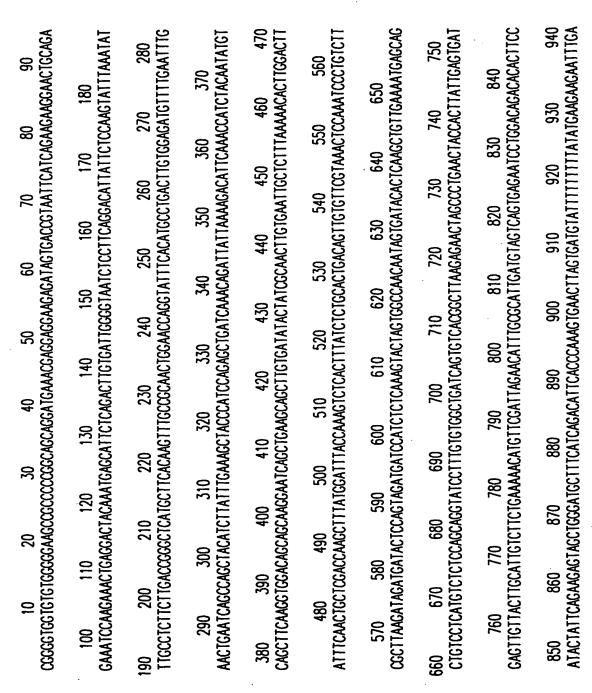


FIG.5B

_	1000	(GCTA	20 ;AACA	2000
960 970 980 990 1000 1010 1020 1030	TCACATG	120 TTIGTCA	12 ATTATGG	1310 ACATGA1
1020	TGGGAA	1 SCAAAA	1210 ATTATCC	30 TTCCCC
	90000	1110 AACCTT(	00 ATCTCA/	130 CTGTGG
1010	101011	100 ATTGCAG	12 3CCCCT	1290 TGGTAGG
000	CAAAGA	1 VATTCCC	1190 ICTCCTC	1230 1240 1250 1260 1270 1280 1290 1300 1310 CTAATTCCTGACCAAAAGTATAGTTTGGAGCAGATTCACTGGGAAGTGTCCAAGCATCTTGGTAGGGTGTGGGTTTCCCGACATGA
	CAGTAAC	1090 AGAGTT/	80 AAGATG1	128 TGTCCA
990	GCACAT	080 TTCATCA	11 3TTTGTG	1270 TGGCAAG
980	STACTTT	1 CCCCAC	1170 ITGTTGA	50 SATTCAC
_	CCATCT(	1070 CCATTA(	60 GTGCCT	121 IGGAGCA(
970	CTGCCAC	060 TCCAAAT	11 TCATGTA	1250 ATAGTT1
960	SAAATAC	1 TACTGTG	1150 TGAAGTC	40 CAAAGT
_	ICCCTATO	1050 3AACTAG	40 GGAATG	12. ICCTGAC
950	CCCCTTCTTTCCCTATGAAATACCTGCCACCCATCTGTACTTTGGGAGATCAGTAAGCAAGGTGTGTGCCTTGGCCGTGTGGGAATGACATGCCCT	1040 1050 1060 1070 1080 1090 1100 1110 1120 AGACTGGTTGAACTAGTGTGTGCAAATGGATTACGGCCACTTGATGAAGTTAATTCGCATTGCAGAACGTTGCAAAAATTTGTCAGCTA	1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 TIGGACTAGGGAATGTGAAGTCTCATGTAGTGCCTTTGTTGAGATGTGTGGGGCCCCCCTATCTCAATTATCCATTATGGAAGA	1230 1240 1250 1260 1270 1280 1290 1300 1310 AGTACTAATTCCTGACCAAAAGTATGCAGCAGTTTCCCGACATGATGCCC
	8	AGA	1130 TTG	AGT

FIG.5C

	10	20	30	40	50	60
MKRNSL	SVENKIVQLS	GAAKQPKVGF	YSSLNQTHTH	TVLLDWGSLP	HHVVLQIFQY	LPLL
	70	80	90	100	110	120
DRACAS	SVCRRWNEVF	HISDLWRKFE	FELNQSATSS	FKSTHPDLIQ	QIIKKHFAHL	QYVS
FKVDSS	130 SAESAEAACDI	140 LSQLVNCSIQ	150 TLGLISTAKP	160 SFMNVSESHF	170 VSALTVVFIN	180 SKSL
SSIKIE	190 OTPVDDPSLK	200 ILVANNSDTL	210 RLPKMSSCPH	220 VSSDGILCVA	230 DRCQGLRELA	240 LNYY
ILTDEL	250 .FLALSSETHV	260 NLEHLRIDVV	270 SENPGQIKFH	280 AVKKHSWDAL	290 IKHSPRVNVV	300 MHFF
LYEEEF	310 ETFFKEETPV	320 THLYFGRSVS	330 KVVLGRVGLN	340 CPRL IELVVC	350 ANDLQPLDNE	360 LICI
	370	380	390	400	410	420
AEHCTN	NLTALGLSKCE	VSCSAF IRFV	RLCERRLTQL	SVMEEVLIPD	EDYSLDE IHT	EVSK
YLGRW	430 VFPDVMPLW					

FIG.6A

	10	20	30	40	50	60
ACATTTI	CTAAIGITIA	ACAGAA IGAA	GAGGAACA(	SITIAICIGI	IGAGAA I AAAA	TTGTCCAGTTGTCA
70	80				120	130 CACACACGGTTCTT
GGAGCAGI	JOAAACAGCI					
140	150 CCCCACTT				190 ICAGTATOTTO	200 CTTTACTAGATCGG
						•
210 GCCTGTG					260 [ATTTCTGACC]	270 Ittggagaaagttt
				320 [TAAGTCCAC]		340 ICATTCAGCAGATC
350 attaaaa						410 CTGAGTCAGCAGAA
420	430	440	۸,	SO 46	sn 470	) 480
						IGATTTCAACAGCC
490	50	0 51	0 5	520 5	530 54	40 550
AAGCCAA	GTTTCATGA					TTTTATCAACTCA
560					•	620
AAATCAT	TATCATCAA	TCAAAATTGA	AGATACACO	CAGTGGATGAT	ICCTTCATTGA	AGATTCTTGTGGCC
					670	680 690
AATAATA	GIGACACIC	TAAGACTCCC	CAAAGAIGAC	STAGC IG ICC	CAIGITICAIC	CTGATGGAATTCTT
	700 STCACCCTT				740	
16161A6	JIGACCOTT	G I CAAGGCC I	TAGAGAAC	IGGCG I IGAA	ITATTACATCC	TAACTGATGAACTT
	770 Parteteaai	780 Segagaetea	790 .tcttaacc1	008 [TOTADAADT]	810 CCAATTGATG	820 ITGTGAGTGAAAAT
			•			•
830 CCTGGAC	840 Agattaaat	850 Ticatgetgi	860 Taaaaaac <i>i</i>	870 ACAGTTGGGA	880 GCACTTATTA	890 NACATTCCCCTAGA
						960
900 GTTAATG	910 FTGTTATGC	920 ACTTCTTTCT	930 'ATATGAAG <i>i</i>		950 SACGTTCTTCA	AAGAAGAAACCCCT

FIG.6B

970	980	990	1000	1010	1020	1030
GTTACTCACC	TTTATTTTGG	TCGTTCAGT	Cagcaaagtg	GTTTTAGGAC	GGGTAGGTCT	CAACTGTCCT
1040	1050	1060	1070	1080	1090	1100
CGACTGATTG	AGTTAGTGGT	GTGTGCTAA	TGATCTTCAG	CCTCTTGATA	ATGAACTTAT	TTGTATTGCT
1110	1120	1130	1140	1150	1160	1170
GAACACTGTA	CAAACCTAAC	AGCCTTGGG	CCTCAGCAAA	TGTGAAGTTA	GCTGCAGTGC	CTTCATCAGG
1180	1190	1200	1210	1220	1230	1240
TTTGTAAGAC	TGTGTGAGAG	AAGGTTAAC	ACAGCTCTCT	GTAATGGAGG	AAGTTTTGATO	CCCTGATGAG
1250	1260	1270	1280	1290	1300	1310
GATTATAGCC	Tagatgaaat	TCACACTGA	AGTCTCCAAA	TACCTGGGAA	GAGTATGGTT(	CCCTGATGTG
1230 ATGCCTCTCTC	GG					

FIG.6C

10	20	30	40	50	60
MAGSEPRSGTNSI	PPPPFSDWGRLE	AAILSGWKTI	FWQSVSKDRVA	RTTSREEVDE	EAASTLT
70	80	90	100	110	120
RLPIDVQLYILS	FLSPHDLCQLGS	TNHYWNETVI	RNPILWRYFLL	RDLPSWSSVE	WKSLPY
130 LQILKKPISEVSI	140 DGAFFDYMAVYL	150 MCCPYTRRAS	160 SKSSRPMYGAV	170 TSFLHSLIIF	180 PNEPRFA
190 LFGPRLEQLNTS	200 LVLSLLSSEELC	210 PTAGLPQRQ	220 IDGIGSGVNFO	230 LNNQHKFNIL	240 ILYSTT
250 RKERDRAREEHT	260 SAVNKMFSRHNE	270 GDDRPGSRYS	280 SVIPQIQKLCE	290 VVDGF I YVAN	300 NAEAHKR
310 HEWQDEFSHIMAI	320 MTDPAFGSSGRP	330 PLLVLSCISQ	340 GDVKRMPCFYL	350 AHELHLNLLN	360 NHPWLVQ
370	380	390	400	410	420
DTEAETLTGFLN	GIEWILEEVESK	RAR*FSFQII	_GTETI*NLLL	RS*CEYLLS(	PTLSCL
430 FADRLSFGQL+LI	440 LCFLYYFYFLP*	450 Inykkrysvi	460 _VFSPKMNL + T	470 FFW+FLYFLS	.480 SF+KY+I
L		EI 6	<b></b>		

FIG.7A

ATGGCGC	10 GGAAGCGAGC	20 CGCGCAGCGG				60 TGGGGCCGCCTG
70 GAGGCGC	80 SCCATCCTCA(	90 GCGGCTGGAA		110 SCAGTCAGTGA		130 GTGGCGCGTACG
				180 CCTGACGCGGC		200 GTACAGCTATAT
210 ATTTIGT				250 STTGGGAAGTA		270 TGGAATGAAACT
_				320 SAGGGATCTTO		340 TCTGTTGACTGG
350 AAGTCTO					400 STCTCTGATGGT	410 GCATTTTTTGAC
420 TACATGO					) 470 CAAAATCCAGO	480 CGTCCTATGTAT
490 GGAGCTO		-	-	-		550 CTGTTTGGACCA
56 CGTTTGG				690 6 CTTGCTGTCTT		0 620 TGCCCAACAGCT
-			650 Tattggatca			80 690 AACCAACATAAA
TTCAACA	700 TTCTAATCT			730 Gaaagagata	-	750 GAGCATACAAGT
760 GCAGTTA	770 ACAAGATGT		790 Caatgaaggt	800 GATGATCGAC	810 CCAGGAAGCCGG	820 TACAGTGTGATT
830 CCACAGA	840 Attcaaaaac			870 STTCATCTATO		890 Gaageteataaa
900 AGACATO	910 SAATGGCAAG	920 ATGAATTTTC	930 TCATATTATO	940 GCAATGACAO	950 SATCCAGCCTTT	960 GGGTCTTCGGGA

FIG.7B

970 AGACCATTGT	980 TGGTTTTATC		1000 CAAGGGGAT		1020 TGCCCTGTTT	1030 ITATTTGGCT
1040 CATGAGCTGO	1050 CATCTGAATCT	1060 TCTAAATCAC	1070 CCATGGCTG		1090 Cagaggetga/	1100 NACȚCTGACT
1110 GGTTTTTTGA	1120 ATGGCATTGA			1150 GAATCTAAGO	1160 GTGCAAGATGA	1170 ATTCTCTTTT
1180 CAGATCTTGG	1190 GAACTGAAAC	. —	1210 TTATTACTA		1230 GTGAATATTTO	1240 GCTCAGTCAG
1250 CCCACCTTGT	1260 CCTGCCTTTT		1280 CTTTCATTT		1300 AACTGCTGTG	1310 ETTTTTATAT
1320 TATTTTTACT	1330 TTTTACCATA	1340 AATCAATTAC		1360 GTTTCAGTCC	1370 TAGTATTTAG	1380 CCCCAAAATG
1390 AACCTTTAAA			) 142 ATATTTTCTG		0 1440 AATATTAAAT	<u> </u>

FIG.7C

		30 AGRPRPSDSCK	50 MKCDFNCNHVH	60 ISGL
		90 IKDYERLSCIO	110 QLETESKRLHN	120 IKEN
			170 ENFGDSLQSCL	
		210 Knakrnpkvdf	230 GNFRLQNIIGR	240 KMG
		270 SDMDLINVSKV	290 DKGAFQLYSK	300 (AIQ
		330 SVQKSAAQTSL	350 NQGDQKGSTYS	360 RHN
			410 FKCLCNYHTTK	
30 CK IGPLPGT	440 KKSKKNLRRI	-		

FIG.8A

ಆ	႘	_ ₹	E	470 CTAG	¥	¥	SK C	.AI	CAG 940
90 CTAC	.ĭ	280 100	99	ACT A	- Q	₹	750 TAG/	AC.	ა, <u>ც</u>
6 ည	21	CTT	67 CTA	<u> </u>	95 Se	19	E	840 TAGCA	\\$
පූ	180 VAC	CTA	က္မ	_ Se	213	650 3ATT	₹	8 11	_ <u> </u>
ŠČI	₽ P	270 3AAGA	IÇA(	460 AATAG	25	12	ජී දි	310	930 AGGG
8 5	<b>₹</b>	2 Z		₹	ည္တည္တ	21	740 SCCAGAGG	Š	ATA
Š	وٍ₹	11	38 SS	₹	3,71	o 8 9	Ş	830 AGACA	416
8	170 TTGTAA	AC AC	20	450 3TACA	¥ €	640 GCCAC	(AI	); (2)	920 3AAGA
ු පු	AG.	260 SATGA	219	ACI 4	Q A	55	730 AAATTA	SA SA	) <del>/</del>
2000	_ <del>[</del> 8	<u> </u>	පිසි	₩	54 ATG	CII	₹	820 VAGGG	5
Se	160 27036.	₩	JAI	o Li	AAC	630 AAAAC	AAC	& 85	0 [GA]
SAT.	8	<u>¥</u> 22	ATG	440 GACACT	GTG	₹	720 GCTG	1	910 AGAAGA
පි දි	g	250 TGGTAA	0	SS	53 17	₹	7 ATG	012	₹
361	150 CCCCT(	AC	₩ 13	₹	ဋ္ဌ	620 TATCC	GAG	810 AACTC	110
20	<del>-</del> .88	¥	<b>¥</b> C	420 430 GGAAATCAACATGTG	210	6 ATA	ුපු	පූ	900 SAACT
8 8	ğ	240 CGACTT	25	. IF	888	్టర్ర	710 GTAGATCG	<u>\S</u>	Sec
-, 55	္ကଞ္တ	ğ	330 14	· X	1AC 55	) AGA	STA	800 ATTCT	SAG
CA(	140 2000 2000	MII(	CA(	23 <b>¥</b>	23	610 CCCAG	¥	ATA	890 AAAGT(
(3)	3	230 :ATGTTCA	₹	.≯	ωĔ	)S	700 CCTA	<u>9</u>	<u>%</u>
GAGG	791.	., [5]	0. <del>[</del>	S S S	51( `AT]	₹	\\	790 ATCTG	310
5	జర్జ్ క	3	35	Q Z	50	600 AAAT/	χ	75 MT(	(2)
3	130 AGCGCAG	وِڲ	Q <del>V</del>	410 TGCATAA	110	® ₹	o ¥	.2€	880 XATG
೫ಟ	돵	220 .TTGTA	_ ₹	<u> </u>	38	CI/	690 CAAAA	_ 25	M M
GTT	_ 8	₹	330	9	ر ک	000	ATG	780 7335	11/
දු	120 CCCACC	<b>I</b>	얼	400 ACO	SS	85 255 255	_ <b>Q</b>	₩	8 S
SG A	පූ	210 3TGA1	33.1	₹ Ş	o <del>V</del>	22	680 AAAA	₹	870 IGACATGGAC
883	SS		88	₹	₹ 5	₹	_ ₹	770 36CAG	SAC
g	110 3CTCCTG	Ä	۳ ک <u>و</u>	310	II.	580 TCTAC	CAT	7 3	860 CTCAGT
)CI		200 VAAAT(	[AT	390 VAAC1	Ç	19	670 ITCAA	¥.	8 CTC
2 S	ξ	<b>₹</b>	્ર <u>ફ</u>	192	& ₹	, Se	.9 TT	(IAI	XX.
29	100	)LOI	23 23 24	ĘĢ.	, [ <del>9</del>	570 ICCC 10	Ĕ	760 3AATA	, X
10 20 30 40 50 60 70 80 90 AGGTTGCTCAGCTGCCCCGGAGCGCCTGAGGCAGACACCTCGGTTGGCATGAGCCGGGCCCCTGCAGCTGCGCCTAGGG	100 110 120 130 140 150 160 170 180 CCACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	90 200 210 220 230 240 250 260 270 280 TTTCTGTCAAAATGAAGTGTGATTTTAATTGTAACCAGTTCCGGACTTAAACTGGTAAAACCTGATGGAAGACTAGTTTCCTA	290 300 310 320 330 340 350 360 370 CACCCTGCATATCTGGAAGGTTCCTGTAAAGACTTAAAGACTATGAAAGGCTGTCATGTATTGGGTCACCGATTGTGAGCCCTAGGATT	380 390 400 410 420 430 440 450 460 470 GTACAACTTGAAACTAAAGCAAGCATAACAAGGAAAATCAACATGTGCAACACATTAATAGTACAAATGAAATAGAAGCACTAG	480 490 500 510 520 530 540 550 560 AGACCAGTAGACTTTATGAAGACAGTGGCTATTCCTCTATAAAGTGGCCTCAGTGAACATGAAGAAGGTGGCTCCTGGAGGAGAAA	570 580 590 600 610 620 630 640 650 TTTCGGTGACACTCTACAAATACAAAGCCCAGACCAATATCCCAACAAAAACTTGCTGCCAGTTCTTCATTTTGAAAA	660 670 680 690 700 710 720 730 740 750 610 750 750 750 750 750 750 750 750 750 75	760 770 780 790 800 810 820 830 840 TGCAGAATGTGTAGATATTCTCAGCGAACTCTTTCGAAGGGCACTCAGACATGTCTTAGCAACTAT	850 860 870 880 890 900 910 920 930 940 TTTAGCACAACTCAGTGACATTAATCAATGTGTGTCAAAGTGAGCACAACTTGGAAGAAGATCCTAGAAGATGATAAGGGGGGCATTCCAG
P <sub>G</sub>	ಟ	190 T	<b>.</b> 5	7,5	Æ	=	660 CT(	$\cong$	~ =

FIG.8B

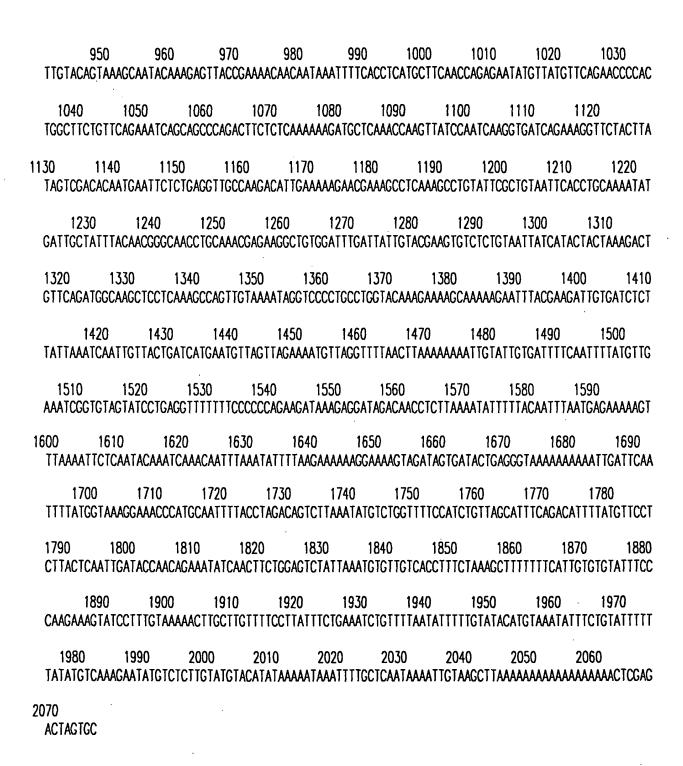


FIG.8C

ARSGASA	10 LRRRRVQVW\	20 /LSRPPPGGG	30 DSFRTRRPQR	40 GPGPGGSQAMI	50 DAPHSKAALDS	60 SINE
LPDNILL	70 ELFTHVPARO	80 QLLLNCRLVC	90 SLWRDLIDLL	100 TLWKRKCLRK	110 GFITKDWDQP\	120 /ADW
	130 SLHRNLLRNF		150 QIDFNGGDRW		170 TEFPDPKVKKS	180 SFVT
	190 WELVDLLADF		210 RPDIVVKDWF		230 QLKVQLASADY	240 FVL
	250 VTIQQWNNAT		270 DYPRGVRYILI		290 WAGWYGPRVTN	008 122
	310 RNQASSEAQF	320 PGQKHGQEEA	330 AQSPYGAVVQ	IF		

FIG.9A

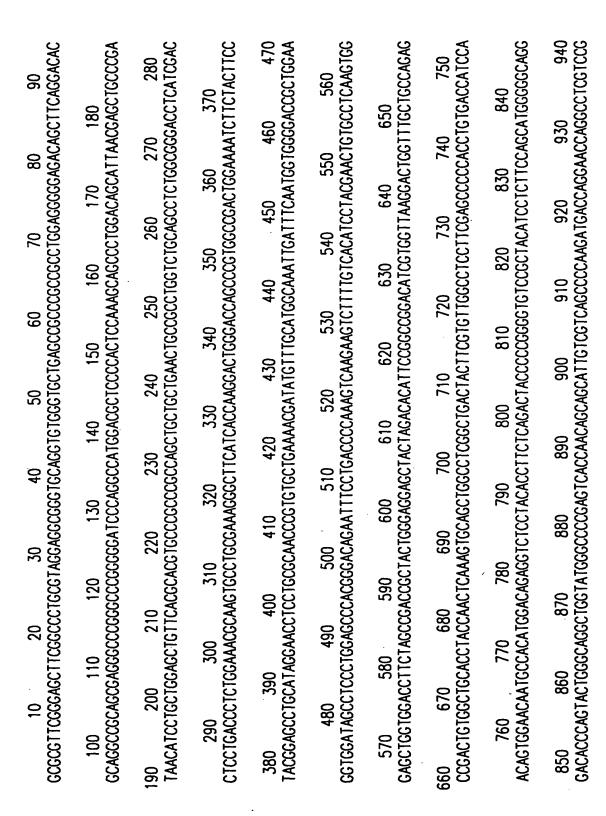


FIG.9B

ပ္		و	≯	2 ပိ	∠
950 960 970 980 990 1000 1010 1020 1030 AGCTCAGCCTGCCCAGCTGTCCCAGCTGTCCCAGCTGTCCCAGCTGTCCCAGCTGTCTGT	1040 1050 1060 1070 1080 1090 1100 1110 1120 TCTGCGTCAGCCAGAGGTCCTGAGCTGAGCTGGGGTGGCAGTGAGCTCCTGTACCAGCGACTCCTGCCCCGGTTCAACCCTA	30 1140 1150 1160 1170 1180 1190 1200 1210 1220 CCAGCTTGTGGTAACTTACTGTCACATAACTTTTGTTGTTGTAAAAATGTTTTCAGGCCGGCC	1230 1240 1250 1260 1270 1280 1290 1300 1310 CACTTIGGGAGCCGAGGCGGGTCAGGGGCAGAGAGACCATCCIGGCCAACAGGGGAAAAAAAAAA	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 AAAATTAGCCGGGCGTGGGGGGGGGCGGGGGGGGGGGGG	1420 1430 1440 1450 1460 1470 1480 1490 1500 AGTGAGCCGAGATCACGCCACTGCACTCCAGAGTGAGAGAGCGAGACTCTGGCTCATAAAAAAAA
1030 CATCC1	20 ITCA/	TAA]	1310 FAAAA	CAGA(	1500 ATAAAA
)101(	11,	0 3CCT(	TACT/	1400 4AGG(	ATAA
1020 ACAGC	)	- 1210 TCACGC	1300 CTGTCTCTACT	2000	1490 \ATAAA
.CTG/	1110 1120 CTCCTGCCCCGGTT	.2991	13(	90 GAAC	AATA
10 . ATTT	SCCA(	1200 :ACTG	AAAC	1390 1400 GCGTGAACCCGGAAGGCA	1480 .AATAAT
1010 CCAGATTT	1100 GTACCA(	2000	1290 ACCGTGA	AATG	14 ATAA
1161	11) CTGT,	1190 ICAGGCC	ACAC	1380 AGAAG/	TAAA
1000 GCTG1	GTCC	TICA	1280 :TGGCCA	TGCA	1470 GCTCAT
CGGA	1090 TCAC	\TGT1	12 CCTG	1370 GAGCCTGA	TCTGG
990 SCCCTA	SCAC	1180 AATAAA	(CCA1	13 3CAGC	1460 GAGACT
, 4TCC	1080 GGGTG	IGTA	1270 AGAGAC	0 CTCG(	1, AGCG/
CCCA	1( ATGG	1170 TTTTGT	AGAC,	1360 GCTACI	O ACAG
980 GCTGC(	O GAGC,	1	1260 TCAGG	CCCA	1450 GGTGA(
CCAG	1070 AGCTG/	o CTGA	AGGT	1350 GTACT	0000
970 AGGA	CAGG	1160 AGCTC	CACC	1	1440 TCCAG
CGAC	1060 CCAGG	ACAT	1250 GGATC	ეეეე 04	CACT
30 VGCAT	CCTO	150 3TGTC	.AGG1	1340 IGCCGC	30 CACTO
960 CAGAAG	50 ACC T1	1 STTA(	1240 XCAGGC	.5918	1430 ACCCCA
1666	1050 CCAGAGG	‡0 STAA(	SACC	1330	GATC.
950 AGCC1	TCAG	1140 TGTGGTAA	1230 TTGGGA	AGCC	1420 CCGAGA
SCTC	1040 TGGGT	AGCT	12 CTTT	1320 4AAATT	TCAG
AG	<u>1</u>	1130 CCAC	Ş	45 A	AG

FIG.9C

10 MSNTRFTITLNY		40 ICLILHDDIPF	60 HSSLQN
70 NEQPSLATSSNQT	80 FSIQDEQPSDSF		
130 TGFYPSEPLLCSE	140 SVEGQVPHSLE		
190 ALSLPEKWKLSGV	200 /YKLQYMHHLCE		
250 PESF ICKEKLGEN	260 VANİYKDLQKL		
310 LRIFRLLDVRSVL	320 SLSAVCRDLF1		
370 IQRKESPKGRFVL	380 LLLPSSTHTIPF		
430 ISSLIPGPGETPS	440 SQLPPLRPRFDF		
FM		·	

FIG.10A

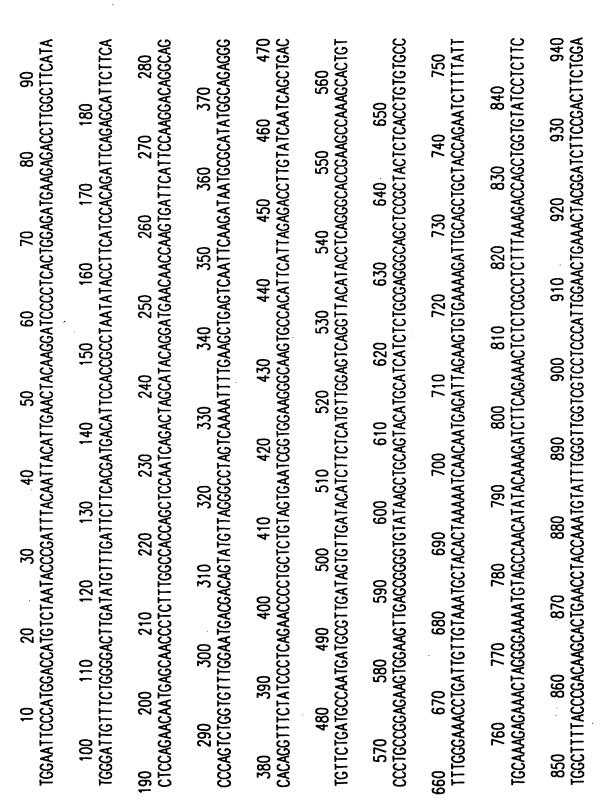


FIG. 10B

GAT	199	O AGG	AGC	1410 AGAT	1111	1111	) )TGC	
950 960 970 980 990 1000 1010 1020 1030 TGTTCGTTCCTTGTCTTGTCGCGTTTGTCGTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTTATATCTGCGTGAT	1040 1050 1060 1070 1080 1090 1100 1110 1120 TTTCGAGACAATACTGTCAGAGTTCGAAAGAAGAAGAAGGAAG	30 1140 1150 1160 1170 1180 1190 1200 1210 1220 TTGTGCTGCTCCTCGCATCCAACCCATTCCATTCTATCCCAACCCTTGCACCCTAGGCCATTTCCTAGGTCCCGCCTTCCTCCAGG	1230 1240 1250 1260 1270 1280 1290 1300 1310 AATTATCGGGGGGGGTGAATATGGCGGGGGGGGGGGGGG	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 CAGTTACCTCCACTGAGACCACCTTTGATCCAGTTGGCCCACTTCCAGGACCCCATCTTGCCAGGGCGGGC	1420 1430 1440 1450 1460 1470 1480 1490 1500 TTCCCTTTAGACCCAGCGGGGCGCCCAACTGATGGCCCCCTGTCATTCAT	1510 1520 1530 1540 1550 1560 1570 1580 1590 TGTTTCTAAACTACAGATGTCACTCCTTGGGGTGCTGCTTCGAGATTGTGGGTTGAGAGTTGCACACACA	00 1610 1620 1630 1640 1650 1660 1670 1680 1690 AAGAGATACATTTATAGCCCTAGGGTGGTATGACCAAAGGTTGGAAAAGGTTGGCTTGGGAATAGTTGGCTGCCAATCTCCCTGC	
ATCT	1120 CGAAA	CTTC	1310 AGACG(	CAAT	CCAI	1590 CAGAA	AATC	
) ITAT	500	1210 rcccc	9999	1400 3CCCC/	0 AGCT	1000	1680 3CTGCC	
1020 3TTTT;	) SAAT(	7, 27	1300 GTCCT	999	1490 CTGGAQ	SCAC.	1660	
CAGC	1110 AAAGA	CTAC	166	1390 GGCGA(	TTT(	1580 ACTTC(	, ragt	
1010 ICCTGTG	AAGA	1200 ATTTC	1100	13 AGGG	1480 ATTTC/	CAG/	1670 3CAAT/	ATT
10 CTCC	1100 CATACA	<b>€</b>	1290 CTCA1	7500	14 TAAT	70 TCT1	TT66	1760 :CTAA
CCC	CACA	30 CTAG	11CA	1380 ATCT1	1116	1570 GTGGTG1	1660 3TTGGCC	AAGT
1000 ATGA(	SAGG	1190 CACCCT	1280 :AATCAG	ည္သ	1470 \TTGA1	SATT	16 3611	1750 AAAAAA
CAA	1090 GGAAC	CTTG	12 CCAA	70 CTAA	STGA	1560 ITTCT	ACAA	17 TTAA
00 [CCT]	ACAC	1180 AACCC	(CAC(	1370 3GACCT/	30 ICAT(	IATT.	1650 2TGTG/	SAGA
990 TACTG(	SCTG1	CCA/	1270 TTGGA	CCAC	1460 CATTC/	50 3.TGT	CTC	1740 :TTACC
TCT1	1080 AGAAC1	0 TATC	ATG1	1360 CACT1	CTG1	1550 CGAGT(	0 3677(	, TTC
980 GACC	CCA	1170 ATTCT,	0	2000	1450 GCCG	ATCI	1640 :AAAGG1	50 50 70
TCCT	1070 AGATT	1100	1260 ACTTCC	0 GTTG	1 ATG	1540 TGCTG	ACCC	1730 :TGATGC
0 TTTG	CACA	1160 CACCA	CAAC	1350 TCCAG	0 ACTG	1000	1630 3CTATG	1110
970	O AAGA	CCAC	1250 AAGAC	TTGA	1440 SCCAA(	0 CTTG	1000	1720 17161
STCT	1060 3TTCA/	CAAC	CAA	1340 ACCCT	3100	1530 ACTCC	AGGG	1 AAGT
960 CTTT(	CAGA(	1150 ICCTCA	) ATGA(	ACCA(	1430 CAGGG(	IGTC	1620 CCCTA(	o ATTG
) 101	1050 ACTGT(	CA]	1240 AATA	CAG/	, AGC, 1	1520 FACAGA	\TAG	1710 ICTAGA
) SCTCT	10 NATA(	1140 CTCCT0	5670	1330 CCACT	ACC(	15 CTA(	1610 ACATTT/	1700 1710 1720 1730 1740 1750 1760 1760 1760 1760 1760 1760 1761 TCTTGCTTGTTTACCAGATTAAAAAAAAGTGTAAATT
950 TTCC	CACA	1557	1230 ATCGC	CCTC	1420 TTAGA	TAW	16 \TAC/	1700 GCTTC1
1100	1040 TCGAC	0.00	12 TTAT	1320 CAGTTA	200	1510 3TTTC	GAG4	1700
5	1	1130 TT	₹	S S		2	1600 AA(	2
		-						

FIG. 10C

	10	20	30	40	50	60
ETSKLG+S	SAVLAPAAGO	STLSSEGRSA\	/SGILIAVTS	TGVDK+SLNQI	LLHGLGTSSRI	LSHF
	70 PRGQFVAAA\	80 /EIAGRSGLQN		100 NQQLQQEGYSI	110 EQGYLTREQSI	120 RRMA
	30 IHRKQVQGG1	140 DIYHLLKARH		160 LEMLPPELSF	170 TILSYLNATDI	180 LCLA
	90 INDELLWQGL	200 .CKSTWGHCS			230 EGSLTFNANPI	240 DEGV
-	50 LDDSPKE I A	260 AKF IFCTRTLN	270 WKKLRIYLDE	280 ERRDVLDDLV	290 TLHNFRNQFLI	300 PNAL
_	10 IAPEERGEYL	320 ETLITKFSHF	330 RFCACNPDLMF		350 YVLCYSLILL	360 SIDL
-	70 MSKREFIRN	380 ITRRAAQNISE	390 DFVGHLYDN		410 KAQLLGLQFLI	420 LQTK
-	.30 GGYISAGHO	440 CSLSTQSSFSV	450 /QPFFLLPFS	460 ILVISLGN+I	470 ILQNFS*FCL	480 SRFA
	90 ISC*RMIN*H	500 IYTLKDGVFVI	510 H+ICLKNFIHF	520 FHSLYKYHVMO	530 CTYLTKE IYSI	540 HNYF
-	50 FPFLSN+VL	560 .KF]*F*SET]		580 RQKPIPASFSI	590 FKL±RVLICY	600 YITM
	10 YKFII+FFI		630 •VL+TI+DF+1	• • •	650 E*NKIXLELW	

FIG.11A

210	110	- T9	<u>5</u>	470 \ATT	ည	<b>ACA</b>	) ATG	Ħ	940 3331
90 ATT	.C11.	280 3CACA(	ZAT.	ITA,	560 ACCT	Ĭ.	750 TGGA1	) VIGT	CAG
<u> </u>	180 11110	1610	370 CAAC	110	3)99K	650 TTTC	ATC	840  CAGA	16A
1110	CCAT	270 VAGGGT	CCAC	460 AGGA1	7000	6 GATT	740 VAGGGT	AGGA	930
80 10102	TGAG	2 ICAN	360 GGCTG	AGGA	550 TGTT1	TTAG	CCAA	830 3ATGAA	CATG
TAGT(	170 12660	.33	ATG	450 VAGAAC	ATG	640 ACCT	NGT	8 11GA	920 CATATCC
70 36TGG1	100	260 :AGA1	CAG/	AAAC	50 50 71 71		730 CTACTTTA	ATC	9. STCA
1,00A	CAG	1100	350 GCAC	AT00	540 :TTGĆCT	O AGA/	CTAC	820 \ATC]	1100
10.10	160 CCACCA	O AGGC	CAGA	440 4GGAA	1160	630 :AATAA(	0 TGA	CAG	910 ATTT
60 CACT	2000	250 GCTCAG	O AGAG	₩ SCA	530 3ACCT	ATAC	720 AGGGAGTG	0 ÄÄCT	AGAA
1223	150 \766	3670	340 CCAGAG	o GAAG	ACTG	620 ICCAT	TGAG	810 AAAAA	O TGAG
) 36TA	Z22	240 CCCA	CTCA	430 ITTICA	0 2 2 3 3	1011	710 )CAGA	9911	900 3CACTG
50 IGGAGG	) TTC	CAT	330 3CTAC	ÄTC	520 ICAATC	CAC	ACC	800 CTAAA	WAT
SAGC	140 [CAGC]	.TGC/	WCC(	420 FATAT(	JACC	610 3665T0	, SCC	CAC.	890 7555
40 CTGC	CAA]	230	AGC/	CAT/	510 IGTCC1	CTT(	700 TAATC	AGA/	
22	30 GTT	999	320 AGTGA	1164	5 CTT0	600 VATCCA	CC11	790 TACA	_ C <b>Y</b> C]
10.10	130 TAAAGTT	220 XGTCCC	CTAC	410 GCCAT	CCAT	CAAA	690 SCCTCA	10.16	880 AAATC
30 CAGTI	CAAG	2 1700	310 AGAAGG	- AGG	500 TTTAC	5151	e CAGC	780 ITATCT	TTAG
255	120 TGGAC	Ç <b>∀</b>	3 SAAG	400 AGTCCAAGGA	AGC	590 36611	AGG	3111.	870 ATAATT
20 ATAG	.515	210 3AGGC	SCAA(	SAAG.	490 TGAGCT	SCA	680 SATG	SAM	SCAT.
``299	¥CC	CCAC	300 (6CTC	. AAK	45 CTG/	580 CTCTG	)CTG	770 NTAGC	ÄTT
MAT	110 CTCTAC	200	AGC/	390 VTCC1	000	5 1717	CCAC	CAA	860 3.TAAC
5 ₹	TCAC	2010	O AACC	ATCA	480 CTTC	CAAC	670 ATATCC	AAAC	CTT0
10 20 30 40 50 60 70 80 90 GGAAACGTCAAAATTGGGATACTCGGCAGTTCTGGAGGTCTTCTGGTATTCTG	100 110 120 130 140 150 160 170 180 180 160 170 180 ATCGCCGCTCCCATCCCTCCCTCCCTCCCTCCCTCCCTCC	190 200 210 220 230 240 250 260 270 280 CCTAAAAGTCCCCCCCCCCAATTCCTCCCCCCCCCCCCC	290 300 310 320 330 340 350 360 370 GGTCAGAAACCAGCAGCTGCAAGAAGGCTACCTCACCAGAGAGCAGAGGAGAATGGCTGCGAGCAACATTTCT	380 390 400 410 420 430 440 450 460 470 AACACCAATCATCGTAAACAAGGCAGGGATTGACATATATCATCTTTTGAAGGCAAGGAAATCGAAAGAACAGGAAGGA	480 490 500 510 520 530 540 550 560 TGGAAATGTTGCCTCCTGAGCTTTACCATCTTGTCCTACCTGAATGCAACTGACCTTTGCTTGGCTTTGGCAGGAGCTTTGC	570 580 590 600 610 620 630 640 650 GAATGATGAACTTCTGGGAAGGGTTGTGGGAATCCACTTGGGGTCGTTTCCATATACAATAAGAACCCACCTTTAGGATTTTCTTTTAGA	60 670 680 690 700 710 720 730 740 750 AAAKTGTATATGCAGCTGGATGAAGGCAGCCTCACCTTTAATGCCAACCCAGATGAGGGAGTGAACTATTTATGTCCAAGGGTATCCTGGATG	760 770 780 790 800 810 820 830 840 ATTCCCCAAAGGAAATTCCCAAAGGAAATTCGCAAAAAATTTCGAAAAAATTTTTTTT	850 860 870 880 890 900 910 920 930 940 GGATGACCTTGTAACATTGTAGAAATCAGTTCTTGCCAAATGCACTGAGAGAATTTTTGGTCATATCCATGCCCTGAAGAGGGT
CGA	ATO	190 1730	<u>1</u> 99	380 AACAC	35	<b>₩</b>	660 AAA	ATT	850 GGATG

FIG.11B

95 GGAGAGTAT 1040 CTGTCTATG 1130 1 AAATACCCG GCACAATTG 1320 TGAGTATAG TTTTTCCTA	950 960  TATCTTGAAACTCTT  1050  ATGTACTGTCCTACT  1140 115i  CCGTCGCCCTCCAC  TGCTAGCACTTCAG  TACAATCAACCTTCAG  CTAATTTTGTTTATC  CTAATTTGTTAG  GTATTTGTCATAG	960 IGAAACTCTTATA/ 1050 106 CTGTGCTACTTTT  1240 AGCACTTCAGTTT  1330 1340 ICAAGCTTCAGT  1520 15: IGTGCATTAGATT  IGTGCATTAGATT  IGTGCATTAGATT	0 970 1060 CTCTTTGATTCT 150 116 CAAAATATTAGT 1340 1 1340 1 CAGTGTGCAACC CAGTGTGCAACC CAGTGTGCAACC	970 98  AAAGTTCTCACA1  1070  1160 1  TTAGTGAAGATT1  50 1260  ACTTCACACTAA  1350  CAACCTTTTTTC  1440 145  TTGCACAAAACTT1  CCTGAAAAACTT1	980 ACATAGATTCTC TCCATTGACCTC 1170 ATTTTGTAGGGC TTTTCTTTTGCC/ 1450 1450 1450 1450 1450 1450 1450 1450	990 ATTCTGTGCTTGCA 1080 109 CACCTCACTAGCCC 1180 1270 1 1270 1370 TTGCCATTTTCTAT 1460 CCACTGTCTAACC	1000 11GCAACCCTGAT1 1090 1190 AGCCCTCATGTGAA 1280 ACTTAGCAATATC 1370 1380 TCTATTTTAGTAA 1560 15	1016 1100 3AAGAATA 1200 ATCTACCT 1290 ATTTCCT AATTTCCT 1570 1570	110 1110 1110 140 1, 1200 1, 17ATTGCCAT 130 130 17GCGAACTA 149 1580 149 1580 149 1581 149	1020 10. 1TGGCCTTAGTCG .AAAAAGGGAATT .210 1310 .CATGTGGCTGCA .COTGTGGCTCATTG .CTGAATAATTTTG .TGACATTATAGTG .TGACATATTAA	1030 STCCTGATG 0 1220 SCATAAAAA 310 ATTGTAGCC ATTGTAGCC ATTGTAGC 1500 TTTGCAGAA
1600	1610	1620	1 1	1630	1640	1650	1660	1670	70 TCTCAAA	1680	1690
ACALLIA	TAGICAL	= X X	1 A 1 1 C 1	AAACA I I I	I AAL I AAA	31115		AGATTTATAGTCATAATTATTTATTGTAAAGATTTTAACTAAAGTTTTCCTTTTCTCTCAAACTGAGTTCTGAAATTATTGATTCTGATG	ICIOAAA	<u> </u>	ALICIOALC
					i	•	(				

FIG. 110

1780	AACCAATACCAGCTTCCTTTTCCTTTAAACTTTGAAGAGTGTTGATTTGT
0//	AACTTTGAA(
1760	TTTCCTTTA
1750	ACCAGCTTCC
1740	ACAAACCAAT,
1730	SACTTCAGRC
1720	.AAACTATTGTCTYCGTAAAAGTTAGATCTGACTTCAGRCAGAA
1710	ICTYCGTAAA
1700	TCAAACTATTG

FIG.11D

10	20		40	50	60
MAAAAVDSAME	EVVPALAEEAAI		NLPGEVLEY I	LCCGSLTAAD	IGRVSSTCR
70	80	90	100	110	120
RLRELCQSSG	KVWKEQFRVRWI	PSLMKHYSPT	DYVNWLEEYK	VRQKAGLEAR	KIVASFSKR
130	140	150	160	170	180
FFSEHVPCNG	FSDIENLEGPE	IFFEDELVCI	LNMEGRKALT	WKYYAKKILY	YLRQQKILN
190	200	210	220	230	240
NLKAFLQQPDI	DYESYLEGAVY	IDQYCNPLSD	ISLKDIQAQI	DSIVELVCKT	LRGINSRHP
250	260		280	290	300
SLAFKAGESSM	MIMETELQSQVI		QLKFKGNRMD	YYNALNLYMH	IQVL I RRTG I
310	320	330	340	350	360
PISMSLLYLT	I ARQLGVPLEP	VNFPSHFLLR	WCQGAEGATL	DIFDYIYIDA	FGKGKQLTV
370	380	390	400	410	420
KECEYL IGQH	VTAALYGV <u>V</u> NVI	KKVLQRMVGN	LLSLGKREG I	DOSYOLLRDS	SLDLYLAMYP
430	440	450	460	470	480
DQVQLLLLQAF	RLYFHLG IWPEI	KVLDILQHIQ	TLDPGQHGAV	GYLVQHTLEH	IIERKKEEVG
490 VEVKLRSDEKI	500 HRDVCYSIGLII				540 IVHSLPHGHH
550	560	570	580	590	600
QPFYNVLVEDO	GSCRYAAQENLI	EYNVEPQE I S	HPDVGRYFSE	FTGTHY I PNA	ELE I RYPED
610 LEFVYETVQN	620 IYSAKKENIDE				

FIG.12A

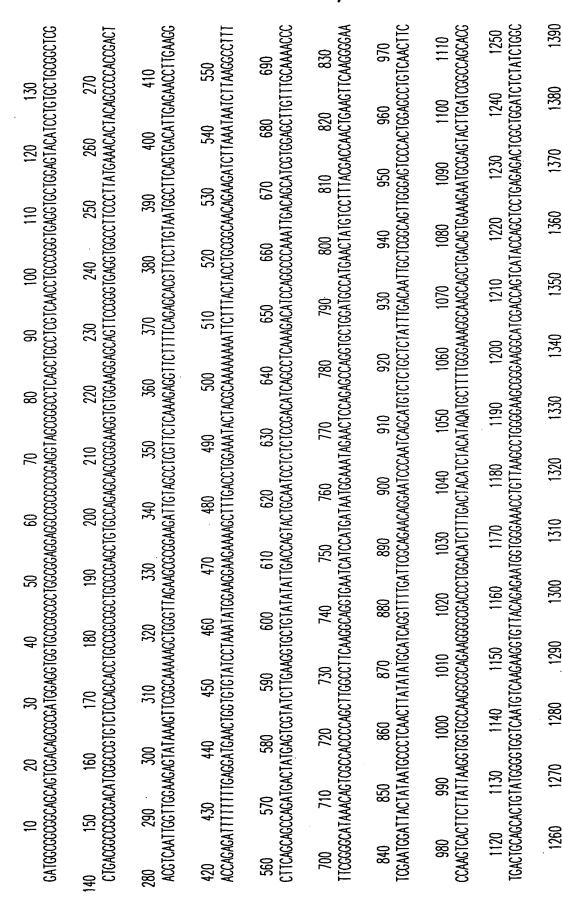


FIG. 12B

ATGGCTATA	0	1800	1940	2080	2220	2360	2500	2640
	TCGATACGC	AAGATCTGGAG	CGTCTCCACC	VTTAATCTGA	TCTGCATTT	ATTCAGAGG	TTTAAATTTA	GGATTTTC
1520 ATAAGAGGT/	1660 CGCCTCCTGT(	0 TATCCAGAA	1930 CGCAAGAAGACI	2070 ACACTAGTGAA	2210 CCCTGTCTG	2350 TAGTTGCAT	2490 CTTTTTTT	2630 :TTTGTGAAT
1510	1650	1790	O 19	2060	2200	2340	2480	2620
TTATGAAGC	GGTGGAGGAC	CACATCCCCT	GGGACTCCG	TCTCCCCCTAC	ICACTCCATTC	ACCCTGAAGT	(CTGTTTTAT	VATACTGAAC
1440 1450 1460 1470 1480 1490 1500 1510 1520	1640	1780	D	50 20	2190 2	2330	2470	2550 2560 2570 2580 2590 2600 2610 2620 2630 2640
AGGTGGGCGTAGAGGTGAGCTGCGATGAGAAGCACAGAGTGTCTGCTACTGGGGCTTATGAAGAGCATAAGAGGTATGGCTATA	ATAACGTGCT	CCAGAGCTGG	CCAAGAGAACGG	AATGTTGCTC	TTCTTTGTATTC	GTGTGTTTT	CAGATTTCA/	AGTITATGCACATCTCTATAAAATTCTTTTATTACATAAAATTCTTTTAGAAAATGCAAATAGTGAACTTTGTGAATGGATTTTT
1490	1630	1770	1910	0 2050	2180 2	2320	2460	2600
:TGCTACTCC/	AGCCTTTCT/	CATCCCAAACG	TGCTATCTTCC	TGCAAAGACAA1	CCTGTAATCATT	IGAGGACTGTG	ATGTGAAACA	ATTCTTTA
1480	1620	1760	1900	) 2040	70 21	2310	2450	2590
SAGAGATGTO	SCCACCACC	SCACTCACTAC	ITGCTGCTGCT	STTCCCCAGCTG	SCACCCTCCT	366TCCCGAGTG	ITTTCTAATA	ATTACATAAA
1470 NTGAGAAGCA(	1610 CTGCCGCACO	1750 AGTTTACTGO	1890 ATTGCACCT1	2030 CCCTGTGCTCT	0 2170 TCTCACAGTCGA	2300 2. 3CAACCTGTTCG	2440 GAATTTATTT	2580 ITICIAITII,
1460 2TGCGCTCCGA	1600 XGTCCACAGG	1740 IATTTCTCAG	1880 FACAGGAGCAC	2020 ACTTTAAATAC	) 2160 STTCATGAGGTC	30 23 7	2430 26AATCATTTG	2570 AATCATTAGTT
1450 AGGTGAAGC	1590 GAACATGAA(	1730 GTGGGAGGC	1870 ACTAAAGTC	2010 CTCCTACTAA	ACATTCTGTCT	10 2290 CTTCTGATTTCT	2420 24 AATGGTAATTA	2560 CATCTCTATAA
1440	1580	1720	1860	2000	2140	0 2280	2410 24	2550
3TGGGCGTAG	AGTGGATCCG	ACACCCTGAC	AACATAGATG	TGCTGGTTGC	ACACTTGTGA	CAATAATTTCCT	VTTAACAAGCTAA	ACTTTATGCACA
1430	1570	1710	1850	1990	2130	) 2270	00 24	2540 2
VAAGGAGGAG	ATGGGACACG	AGAAATCTC	AAGAAAGAG	CACCAGTAG	CCTGTGGTG#	'ATGCATTTGCA	CGAĞACATT	TCCTCTTGAG
1400 1410 1420 1430 CTGGTGCAGCACACTCTAGAGCACACTCTAGAGCACATTGAGCGAAAAAGGAGG	O 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1630 1650 1650 1650 1660 1650 1660 1660 166	70 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1770 1780 1800 1800 ACCCCAAGAAAACTTGGAATATAACGTGGAGACTCCAAAAATCTCACACCTGGGGGGGTTTACTGGCACTCACAACCCAAACGCAGAGGATCCGGTATCCAGAAGATCTGGAG	310 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 ITTGTCTATGAAACGGTGCAGAATATTTACAGTGCAAAGAAGAAGATGAGTAAAGTCTAGAGGGGACATTGCACCTTTGCTGCTGCTGTTTCCAAGAGGGGAACGGAAGAAGAAGATGTTCCAAAAAAAA	1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2050 2050 2060 2060 2070 2080 GACCCTCGGGACCTGCTGCACCAGGAAGCCACTCCACTAGTTGCTGCTGTAATACCGTGTGCTCTTCCCCAGCTGCAAAGACAATGTTGCTCTCCCCTACACTAGTGAATAATCTGA	2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2220 AAGGCACTGTGTCAGTGGCCTTGTATGCTTGTCGTGGGAGTTTGTGAGTTCTGTGAGGTCTCACAGTCGAGGCTCCTGTAATCATTGTATTCACTCCATTCCCTGTCTGT	2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2360 CITCCTTCCTTCCTCCTCTCTCTCTCTCTCTCTCTCTCT	2370 2380 2390 2400 2410 2420 2430 2440 2450 2450 2460 2470 2480 2470 2480 2490 1AAAGTTGTGTGTGCTATGCAGCATTTGAGATGTTTATTTTTTTT	ITAT
1410 ICTAGAGCACAT	1550 STGGGACCCC	1690 SAATATAACG	1830 GCAGAATAT	1970 TGCACCAGG	2110 GCATGGCTT	2250 TTGGCTGGAC	) 2390 TTGGCAGCATC	2530 30 2530 30 11 11 11 11 11 11 11 11 11 11 11 11 11
1400	1540	1680	1820	1960	2100	2240	2380	0 2520
SAGCACACTO	GATCTACGC	VAGAAAACTTGG	ATGAAACCGT	CGGACCTGC	1GTGTCAGTQ	AACATTTCCT	3TGTGCTATCT	ATATAACACAGT
1	1530	1670	1810	1950	2090	2230	2370	2510
CTGGTGC	ACTGTGT	AGCCCAA	TTGTCT	GAGCCCT	AAGGCAC	GTCTCAG	TAAAGTTG	AATGGGAAT

FIG. 12C

FIG.12D

10 20 30 40 50 60

RSTGFRRAGEEWSR\*XLAASPGXLRRPAXTFVLSNLAEVVERVLTFLPAKALLRVACVCR

70 80 90

LWRECVRRVLRTHRSVTWISAGLAEAGHLXGH

## FIG.13A

CCGTAGTACTGGNTTCCGGCGGGCTGGTGAGGAATGGAGCCGGTAGNTGCTTGCGGCGAG TCCCGGGNTCCTCCGTAGACCCGCGGANACCTTCGTGTTGAGTAACCTGGCGGAGGTGGT GGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGTGGCCTGCGTGTGCCG CTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTC CGCAGGCCTGGCGGAGGCCGCCACCTGGNGGGGCATT

FIG.13B

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			.,		
1 ( PRPVQQQQQP	) 20 PQQPPPQPPQQQ		40 XQQQQQPPPPPPP		60 G
7( ERDDDVPADN	) 80 NVAEESGPGAQI	90 NSPYQLRRKTI		110 KNSMEGASTS	120 TTENFGHRAK
130	140	150	160	170	180
RARVSGKSQE	DLSAAPAEQYL	QEKLPDEVVLI	KIFSYLLEOD	LCRAACVCKR	FSELANDPNL
19( WKRLYMEVFE	_	EI0	4 4 4		
		FIG	.14A		
10	20	30	40	50	60
GCGGCCGCG	CCCGGTGCAGC	AACAGCAGCA	GCAGCCCCG	CAGCAGCCGC	CGCCGCAGCC
7( GCCCCAGCAC	O 80 GCAGCCG <u>C</u> CCC		100 TCCGCCGCCG		
130 GCAGCCTCC	) 140 GCCGCCGCCAC			170 CAGGAGCGGA	
190 CGAGCGGGA	) 200 IGATGATGTGC			230 GAATCAGGTC	
250 AAATAGTCCA	) 260 ATACCAACTTC			290 AAAAGAACAG(	300 CGTGTCCCAC
	320 TATGGAGGGCG				
	) 380 AGTGTCTGGAA				
	) 440 ACTGCCAGATG				
	500 AGCAGCTTGTG				
	560			590 CCTATGATGC	

10	20	30	40	50	60
RPRPGLRGGR	APCEVTMEAGG	LPLELWRMIL	AYLHLPDLGR	CSLVCRAWYE	LILSLDSTR
70 WRQLCLGCTE	80 CRHPNWPNQPD	90 VEPESWREAF			
130	140	150	160	170	VGQGKLG
RERRTLSVGP	GREFDSLGSAL	AMASLYDRIV	LFPGVYEEQG	EIILKVPVEI	
,		FIG.	15A		
10	20	30	40	50	60
GCGGCCGCGG	CCCGGACTCC	GCGGTGGGCGA	GCGCCCTGTG	AGGTGACCAT	GGAGGCTGG
TGGCCTCCCC	80	90	100	110	120
	TTGGAGCTGTO	GCGCATGATC	TTAGCCTACT	TGCACCTTCC	CCGACCTGGG
130	140	150	160	170	180
CCGCTGCAGO	CTGGTATGCAC	GGCCTGGTAT	GAACTGATCC	TCAGTCTCGA	CAGCACCCG
190 CTGGCGGCAG	200 CTGTGTCTGGC	210 STTGCACCGAG			
250	260	270	280	290	300
AGATGTGGAG	CCTGAGTCTTC	GGAGAGAAGCC	TTCAAGCAGC	ATTACCTTGC	CATCCAAGAC
310 ATGGACCAAG	320 AATGCCTTGGA	330 ACTTGGAGTCT			
370	380	390	400	410	420
GAGGGAACGA	CGTACCCTGAC	STGTTGGGCCA	GGCCGTGAGT	TTGACAGCCT	GGGCAGTGC
	440 GCCAGCCTGTA				
	500 ATCTTGAAGG1	510 GCCTGTGGAG			GGGTGA

FIG.15B

	10	20	30	40	50	60
ETETAPLT	LESLPTDPL	LLILSFLDYF	RDL INCCYVSF	RRLSQLSSHDF	LWRRHCKKYW	_IS
				•		
	70	80	90	100	110	120
EEEKTQKN	QCWKSLF ID	TYSDVGRYIC	)HYAA I KKASO	SMISRNIWSPO	SVLGWVLSLKE(	GCS
. 1.	30	140	150	160	170	180
RGRPRCCG	SADWAASFL	DDYRCSYRIA	INGOKLVGSWO	YWEAWHCL IT	IVLKIC+TSI	JLP
11	90	200	210	220	230	240
EIPAETGT	EILSPFNFC	IHTGLSQY14	<b>NEAAEG*NKN</b>	<b>IEVFYQCQTV</b> E	RVFKYGIKMC	SDG
2	50					
CINGMH+V	FS					

FIG.16A

10	20	30	40	50	60
GAGACCGAGAC	CGCCCCCCTG	ACCCTAGAGT	CGCTGCCCAC	CCGATCCCCT	CTCCTCATC
70	80	90	100	110	120
TTATCCTTTT	GGACTATCGG	GATCTAATCA	VACTGTTGTTA	ATGTCAGTCG/	AAGATTAAGC
170	1.10	450	100	470	100
UST DAGCTATCAGO	140 STCATGATCCG	UCI AADADDTDTC	160 AGACATTGCA	U\I DOTOATAAAA	UBI TOTATATOT
190	200	210	220	230	240
GAGGAAGAGAA	NAACACAGAAGA	AATCAGTGTT	GGAAAICICI	CIICAIAGA	IACTIACICI
250	260	270	280	290	300
GATGTAGGAAC	SATACATTGAC	CATTATGCTG	CTATTAAAAA	AGGCCTCGGG/	AATGATCTCA
310	320	330	340	350	360
AGAAATATTTO	GAGCCCAGGT	STCCTCGGAT	GGGTTTTATO	CTCTGAAAGAC	SGGGTGCTCG
370	380	300	400	410	420
AGAGGAAGACC	TCGATGCTGT(	GGAAGCGCAG	CATTGGGCTGC	CAAGTTTCCTO	GACGATTAT
470	440	450	460	470	400
	440 ACCGAATTCAC				
490	500 STCTAATCACTA	510	520	530	540
OCA I GGCAC I G	TCTAATCACT/	AICGIICIGA	AGATTIGITA	ICACG ICGA IA	ICACC ICCCG
550	560	570	580	590	600
GAGATTCCAGC	CAGAGACAGGG	ACTGAAATAC	TGTCTCCCTT	TAACTTTTGC	CATACATACT
610	620	630	640	650	660
GGTTTGAGTCA	GTACATAGCA	GTGGAAGCTG	CAGAGGGTTG	AAACAAAAA1	GAAGTTTTC
670	680	690	700	710	720
TACCAATGTCA	GACAGTAGAA(	CTGTGTTTA	AATATGGCAT	TAAGATGTGT	TCTGATGGT
730	740	750	,		
	740 CATGCATTAGO				

FIG.16B

10 20 30 40 50 60
GSGFRAGGWPLTMPGKHQHFQEPEVGCCGKYFLFGFNIVFWVLGALFLAIGLWAWGEKGV
70 80 90 100 110 120
LSNISALTDLGGLDPVWLVCGSWRRHVGAGLCWAAIGALRENTFLLKFFXXFLGLIFFLE
LA

## FIG.17A

GGCTCCGGTTTCCGGGCCGGCGGGTGGCCGCTCACCATGCCCGGNAAGCACCAGCATTTC CAGGAACCTGAGGTCGGCTGCTGCGGGAAATACTTCCTGTTTGGCTTCAACATTGTCTTC TGGGTGCTGGGAGCCCTGTTCCTGGCTATCGGCCTCTGGGCCTGGGGTGAGAAGGGCGTT GGTAGTTGGAGGCGTCATGTCGGTGCTGGGCTTTGCTGGGCTGCAATTGGGGCCCTCCGG GAGAACACCTTCCTGCTCAAGTTTTTCTNCGNGTTCCTCGGTCTCATCTTCTTCCTGGAG **CTGGCAAC** 

FIG.17B

10	0	20 3	0 4	0 50	60
AAAAAAYLD	ELPEPLLLR	VLAALPAAELV	<b>QACRLVCLRW</b>	KELVDGAPLWL	LKCQQEGLVP
7	0	80 9	0 10	0 110	120
EGGVEEERD	HWQQFYFLS	KRRRNLLRNPC	GEEDLEGWCD'	VEHGGDGWRVE	ELPGDSGVEF
13	0 1	40 15	0 16	0 170	180
THDESVKKY	FASSFEWCR	KAQVIDLQAEG	YWEELLDTTQ	PAIVVKDWYSG	RSDAGCLYEL
19	0 2	00 21	0 22	0 230	240
TVKLLSEHE	NVLAEFSSG	QVAVPQDSDGG	GWME ISHTFT	DYGPGVRFVRF	EHGGQGSVYW
25	0				
KGWFGARVT	NSSVWVEP*				

FIG.18A

GCGGCGCCGCCGCGTACCTGGACGAGCTGCCCGAGCCGCTGCTGCTGCGCGTGCTGCCGCACTG CCGCCGCCGAGCTGGTGCAGGCCTGCCGCCTGGTGTGCCTGCGCTGGAAGGAGCTGGTGGACGGCGCC ĊĊĠĊŦĠŦĠĠĊŤĞĊŦĊĸĸĠŦĠĊČĸĠĊĸĠĠĸĠĠĞĠĊŦĠĠŦĠĊČĊĠĸĠĠĠĊĠĞĞŦĠĠĸĠĠĸĞĞŇĠĊĠĊĠĸĊ 210 220 230 240 250 260 270 CACTGGCAGCAGTTCTACTTCCTGAGCAAGCGGCGCGCAACCTTCTGCGTAACCCGTGTGGGGAAGAG GÄČŤTGGAAGGČŤĞGTGTGACĞŤĞGAGCATGĞŤĞGGGACGGČŤĞGAGGGTGĞAĞGAGCTGCČŤĞGAGAC AGTGGGGTGGAGTTCACCCACGATGAGAGCGTCAAGAAGTACTTCGCCTCCTCTTTGAGTGGTGTCGC AAAGCACAGGTCATTGACCTGCAGGCTGAGGGCTACTGGGAGGAGCTGCTGGACACGACTCAGCCGGCC ATCGTGGTGAAGGACTGGTACTCGGGCCGCAGCGACGCTGGTTGCCTCTACGAGCTCACCGTTAAGCTA CTGTCCGAGCACGAGAACGTGCTGGCTGAGTTCAGCAGCGGCAGGTGGCAGTGCCCCAAGACAGTGAC GGCGGGGGCTGGATGGAGATCTCCCACACCTTCACCGACTACGGGCCGGGCGTCCGCTTCGTCCGCTTC GAGCACGGGGGCAGGGCTCCGTCTACTGGAAGGGCTGGTTCGGGGCCCGGGTGACCAACAGCAGCGTG TGGGTAGAACCCTGA

FIG.18B

	10	20	30	40	50	60
MGEKAV	PLLRRRRVKF	RSCPSCGSELG	VEEKRGKGNP	ISIQLFPPEL	VEHIISFLPVI	RDLV
	70	00	00	100	110	120
AL COTO	70 RYFHFVCNGF		90 SPRI ODODTK	100 GLYFOAFGGR	110 RRCLSKSVAPI	120 1 AH
אבטעוט	IVII IIL VODOL	O A HILLY I CHAILE	יון משמשאוו וכי	OL II GAI OON	MINOESINSTALI	LLAII
	130	140	150	160	170	180
GYRRFL	PTKDHVF ILC	YVGTLFFLKN	IALVSTLGQMQ	WKRACRYVVL	CRGAKDFASDI	PRCD
	100	200	210	220	230	240
TVYRKY	190 LYVLATREPO	200 DEVVGTTSSRA			HHSMTFKQIVI	
	C 1 1 C / 1 1 1 C	(2 7 7 0 1 1 0 0 1 0	.0001E11E40	OOQITTI TUUTI	THEOMET NGT V	. 104
	250	_	270	280	290	300
ETQRAL	LLLTEEGKIY	'SLVVNETQLD	QPRSYTVQLA	LRKVSHYLPH	ILRVACMTSNQ:	SSTL
	310					
YVTDPI	LCSWLQPPWF	PGG				
YVTDPI	310 LCSWLQPPWF	PGG				

FIG.19A

ATGGGCG	10 AGAAGGCGG	20 STCCCTTTGC	30 TAAGGAGGA	40 AGGCGGGTGA	50 AAGAGAAGC1	60 GCCCTTCT	GTGGCTCG
70 GAGCTTG	80 GGGTTGAAG	90 SAGAAGAGGG	100 GGAAAGGAA	110 AATCCGATT	120 [CCATCCAG]	130 TTGTTCCCC	) CCAGAGCTG
		160 CATTCCTCC					
210 CACGAAG		230 GGGAAGGCG					
		300 TGTATTTCC					
350 CCCTTGC		370 GCTACCGCC					
		44 CTCAAAAATG					
490 CGCTATG		0 5 GTCGTGGAG					
56 AAATACC		70 TGGCCACTC					
		640 ATCTGCAGT					
		710 TGCTGGTTG					SAGGAAGGA
760 AAGATCT		780 TAGTGAATG					
		850 ACTACCTGC					
		920 CTATTCTGT					

FIG.19B

			50 RTRPREEAEGG	
7 EEGARGIIK		100 RREGARPGRVO	110 QGQGGQVWAYI	120 PGT
13 GAAMAAAAR			170 RALGRLAQVYR	180 WLW
19 HFTNCDLLR		220 SQNW I VGCCRE	230 EGILLKWRCSC	240 MPW
25 MQLEDDALY		280 AGHDEDVCHF\	290 /LATSHIVSAG	300 GDG
316 KIGLGKIHS		340 RDRTAKVWPLA	350 \SGQLGQCLYT	360 IQT
37 EDQIWSVAI		400 GQLMTHLDRDF	410 PPRAGVLDVI	420 YES
430 PFALLSCGY			470 LATGSSFYSV	480 VRL
49 WDRHQRACPI		520 .SYNLHVLDIO		

FIG.20A

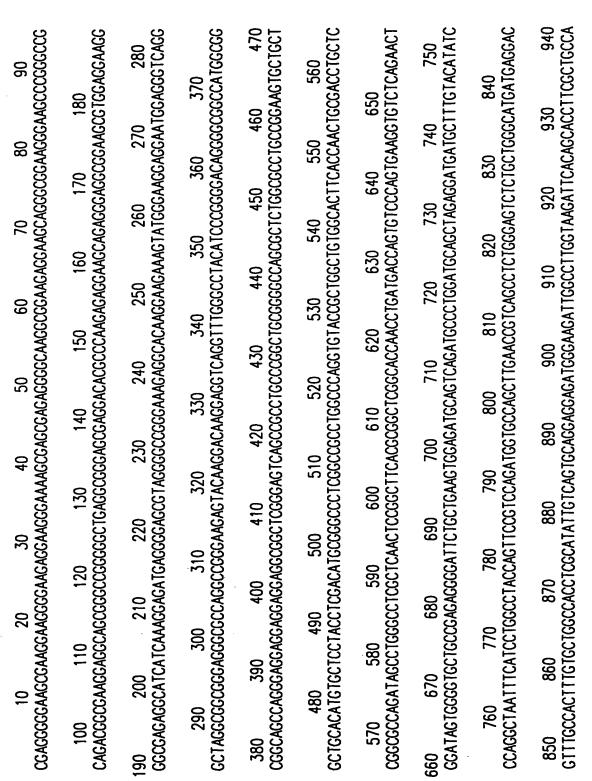


FIG. 20B

950 960 970 980 990 1000 1010 1020 1030	1040 1050 1060 1070 1080 1090 1100 1110 1120	30 1140 1150 1160 1170 1180 1190 1200 1210 1220	1230 1240 1250 1260 1270 1280 1290 1300 1310	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410	1420 1430 1440 1450 1460 1470 1480 1490 1500
AGTACTGGGCTCATGAACAGGGTGAACTGTGTGGATTGCAAAGGGGGCGATCATATCATTTGGCTCCAGGGACAGGGCGCCAAGGTGTGGCC	TTTGCCCTCAGCCCAGCTGGTGTTTATACACCATCCAGACTGAAGACCAAATCTGGTCTGTTGCTATCAGGCCATTACTCAGCTCTTTT	GTGACAGGGACGCTTGTTGTGGCCACTTCTCACCCTGAAATCTGGACCTCAACAGTGGGCCAGCTGATGACACACTTGGACAGAGACTTTC	CCCCAAGGGCTGGGGTGCTGTATATGAGTCCCCTTTCGCACTGCTCTCTGTGGCTATGACACCTATGTTCGCTACTGGGACTGCCG	CACCAGTGTCCGGAAATGTGTGTGGGGGGGGGGGCCCCACAACAGCACCTGTACTGCCTGC	GGTTCCTCCTTCTATAGCGTTGTAGGGCTGTGGGACGGCCTGCCCGCCACACCTTCCCGCTGACGTCGACCCTCGGCCTCGGCACCCTCGGCACCCT
950 960 97	1040 1050 1060	1130 1140 1150 1	1230 1240 1250	1320 1330 1340	1420 1430 144
AGTACTGGGCTCATGAACAGGAGGTGAAC	TTTGGCCTCAGGCCAGTGT1	GTGACAGGCACGCCTTGTTGTGGGCACT1	CCCCAAGGCCTGGGTGCTGATA	CACCAGTGTCCGGAAATGTGTCATGGAG1	GGTTCCTCCTTCTATAGCGTTGTACGGC1

FIG.20C

10	20	30	40	50	60
LILTSVLLFQR	HGYCTLGEAFI	NRLDFSSAIQ	DIRTFNYVVK	LLQLIAKSQL	.TSLSGVAQK
70	80	90	100	110	120
NYFNILDKIVQ	KVLDDHHNPRL	_IKDLLQDLS	STLCILIRGV	GKSVLVGNIN	IIWICRLETI
130	140	150	160	170	180
LAWQQQLQDLQ	MTKQVNNGLTL	SDLPLHMLNI	NILYRFSDGW	DIITLGQVTP	TLYMLSEDR
190	200	210	220	230	240
QLWKKLCQYHF	AEKQFCRHL I L	.SEKGH1EWKI	LMYFALQKHYI	PAKEQYGDTL	HFCRHCSIL
250 FWKDSGHPCTA	260 ADPDSCFTPVS	270 SPQHF IDLFKI	F		

FIG.21A

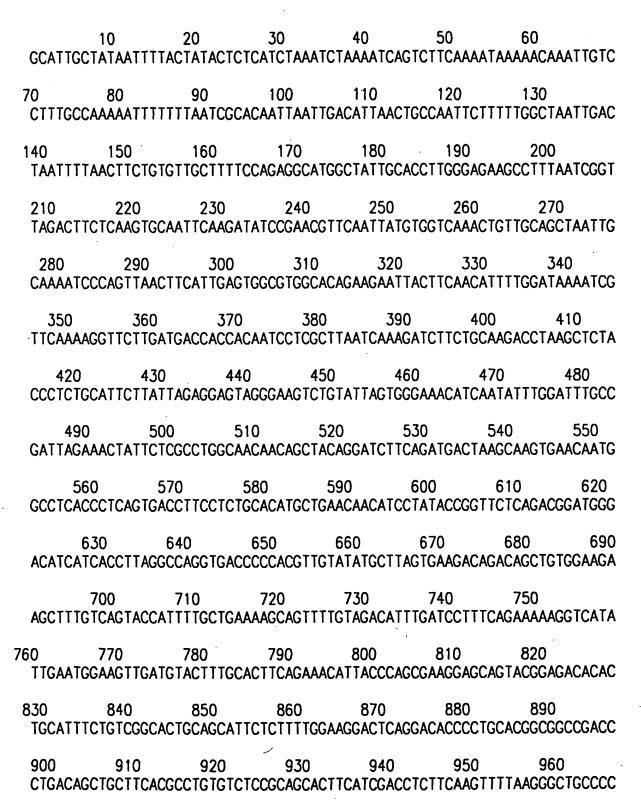


FIG.21B

970	980	990	1000	1010	1020	1030
TGCCATCCC	TATTGGAGA	TTGTGAATCCT	GCTGTCTGT	GCAGGGCTCA	TAGTGAGTGT	TCTGTGAGGTG
1040	1050	1060	1070	1080	1090	1100
						CAAAGGGGGGA
OU TOUNUAU	ICC ICCOMA	30000100110	CHUMMAUCU	IOOOAAOAAC	1000011010	CAAAGGGGGGA
1110	1120	1130	1140	1150	1160	1170
CTGCATGGT	TGCATTTTC	ATCACTGAAAC	TCAGAGGCC	AAGGAAATCA	TTTCTACTTC	TTTAAAAACTC
1180	1190	1200	1210			
CTTCTAAGC	ATATTAAAA	[GTGAAATTT]	GCGTACTCT	CTC		

FIG.21C

10 YGSEGKGSSS	20 ISSDVSSSTDH			
70 NGRGSSTSSSS	80 SITGETVAMVH			
130 LPTNQLCRCAF	140 RVCRRWYNLAW			
190 ETVTVSGCRRL			230 AVFDVVSLCPN	
250 SKVTCISLTRE	260 EASIKLSPLHG			
310 VRLTDEGLRYL	320 VIYCASIKEL			
370 RYVAKYCSKLF	380 Rylnargceg i			
430 NLKRLSLKSCE	440 SITGQGLQIV			
AFF				

FIG.22A

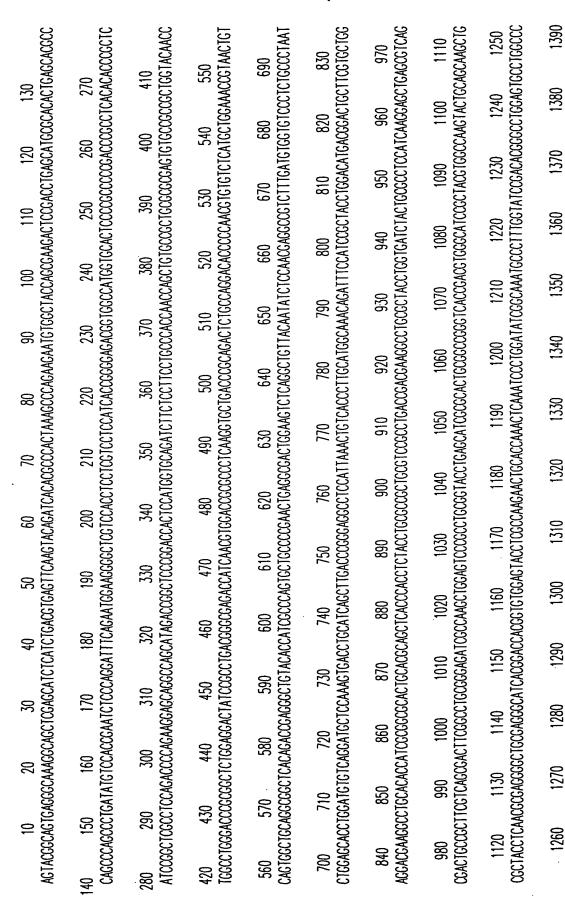


FIG.22B

ATGTAA	GTCAGG	CCACAC	CACCCA	O GACCTT	20 AGAGCA	2360 TTCAGTG	2500 ACCCCA	2640 GCCATG	2780 TAACTT
1520	1580 1590 1600 1610 1620 1630 1640 1650 1660	1800	) 1860 1870 1880 1890 1900 1910 1920 1930 1940	208	22	0	2490	630	2770
AGCAGCGT	ATTAGGAATCTGGCCTTTATTTTTCTCTCATTTCTCATGGCCAACAGGAAACGAAGCAAGC	CCCCACCC	AGCAGCGAGCATCCATCATCAGAATCACAGTGCTCTCCAGAACTGCTTCATTGACCTAAGTCACTCTTTCAATCCCACACCCA	ATGACTAT	CTTGGCAT	CCTGTGTT	AATCACAGCAA	GCACACCT	ATTGGGG1
510	1650	1790	1930	2070	2210	2350	24	)	50
ITTTAAA	SCAAACAG	SACACAGG	\CTCTCTT	STCTGTCA	AGAAGCAC	CCACTTCCC	SACCTAAT	27060071	TCAAGCCT
16	0	1780	920	2060	2200	2340	2480	262(	270
CCAAATT	ACAAACA(	2111CCCTCG(	CTAAGTCA	CCCCCAGO	CATACACA	CAAATCA(	ACCAGCACA	CTGATCC	CATCACA
1500	164	17	)	30	190	2330	2470	2610	2750
IGAACAAA	SAACCAAC	200000TT	ICATTGAC	3CAGTCCT	SAGATACC	CTTTGGCTG	AGCCAGGC	AACTTTT	CCAGACTT
1490	1630	1770	1910	205	CGCACCAC	O	2460	1600	2740
ACAAACC	AACAAACO	CCCAAGGC	AACTGCT1	AGGACATO		TATGTCC	ACACCATCCT	TCCTCAA	TATACATO
480	1620	1760	1900	2040	2180	2320	24	0	30
GTATTCAC	AGAGGCCA	CTCAGGCC	CCTCTCTA	3CTGGGGA	AGCATTGA	GGGTCCTGTA	CCTCCACA	AACACATG	TATTTCTT
1 (	10	1750	890	2030	2170	2310	2450	259	27
	IGGCCAAC	3TCTCCTCCC	XCAGACCT	GCAAACA	ICCATTAT	FOCATAAA	ATTCCCCC	CCAAGGG	SATCTATT
1470	1610	CCTTACT	0	20	160	2300	2440	2580	2720
AGTTCATO	.TTCTCATGG		GTGCTCT(	TCATTAC/	CTTCATG1	AGCATCAG	CTTTCTG	AGCAAGG	CTCTTCT
1460	1600	1740	188	20	0	90	430	2570	2710
AGGGACAG	TTTCCTCA	AGCAAGGC	SAATCACA	TAAAAAT	AAGATTAG	CAGTGCCA	CACAAATA	AATTAACA	CATTTGAC
1450	1590	1730	1870	2010	215	2290	)	50	700
TCTTCTGA	3CTTTATT	3TTCCTTG	XATCATCA	3GCCTTT	ACAGCCCA	AGATTGTGCAC	ICTCTGTA	CAATTTT	TCAGATTG
HO	380	1720	1860	2000	2140	2280	2420	25(	) 2'
CCCCCTT	SAATCTGG	:TGATCCCT(	:CAGGATCC	CTTTTCA(	AGGCCACA	VTTTCAGG/	ICCTGTCCTC	36CCCTTG	
144	15	0	50	990	2130	2270	2410	2550	269(
ACACCAAC	TTATTAGG	AGCAGGC1	GCAGCAGO	GCAAATA	TGAATCA0	GCATGTGA	GCCTGGA1	CACTAAAC	1705()
1430	1570	1710	1850	)	20	2260	2400	2540	2680
CATCGAGC	CGGCAAGG	TGTACTTAAG	TCCCTAGAGG	TTGCATAG	TCCAGCAC	ITCTGTGGAT	TTTTGCCA	TCAAATAG	CAGATGCC
1420	1560	1700	1840	1980	21;	) 2.	30	330	2670
36CTGCGT	XTTTCTTO	CAAAAGA	CCCTCCCT	TAGCACT	TGCAGCT	VACTGATT	ACATCCTC	SACTCTTT	3GCAGAGA
10	550	1690	1830	1970	2110	2250	2390	2;	TACAGCT
CTGCAAGO	AACAGCT(	:TCTTCTC/	AGGCCACA	CAATACCA	CTCTGGG	CCAGGAGAA	CCTCCTCACA	:TTTTACT(	
14	0	1680	1820	1960	2100	2240	2380	2520	266
AAACGCCA	CCACTCAA	AGGCAGTTTC	CCCCCCCA	TGTCAACT	CTTCACTG	SACCTCTT	CTCTCCCA	TCAGTTGC	ATCTGTCC
1400 1410 1420 1430 1440 1450 1460 1470 1480 1500 1500 1510 1520 GCGCTITGTCAAACGCCACTGCAAGCGCTCATCGAGCGCCAAGCGGCAGAGGGAGG	30 1540 1550 1560 1570 GCACCGACACTCAAAACAGCTCTTTCTTCCGGGAAGGTT	70 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1780 1800 1800 1CATTICTECTICACAGGCCCCCCAAAGGTGTACTTAGCCCCCCAGGCCCCCCAGGCCCCCCAAAGGTGTACTTAGCCCCCCAGGCCCCCAAAGCAAAGAAGATGTACTAAGCCCCCCAAAGCCCCCAAAAGAAGAAGAAAGA	ACCC	1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2050 2060 2000 2000 2000 2070 2080 TGGACATTCTIGICAACTCAATACCATAGCCAAAAAAAAAA	2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 GGCCAAAGCACTTCACTGCTGTGGGGCTGCAGCAGGAGGCCCAAAGATTAGCTTCATGTCCATTAGCATTGAGGAGAAATACCATACACAGAAGCACTTGGCATAGAAACA	2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2330 2340 2350 2350 2360 2360 CCAGGCATCGACCTTCCAGGAACTGATTCTGTGGATGCATTCCCTGTGTTTCAGGGTTCTTTCCAGGAATTCAGTTCCTTTCCCAAATCACCCACTTCCCTGTTTTCAGTG	2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2460 2470 2480 2490 2500 66aGAATTICCTCTCCCCACCCTCCTCCCACCACCACCACCACCACCAAACCCAAAAAA	2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 6410 2620 2630 2640 2640 2610 2620 2630 2640	2650 2660 2670 2680 2690 2770 2710 2720 2730 2740 2750 2750 2750 2760 2770 2780 2780 2780 2780 2780 2780 278
99	1530 . CCA	1670 TCA	1810	195 760	200	200	66A	GA1	8

2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900 2910 1614AGTGTTTAATTGTGCAAATTGCCACGTGTGTAACTGCCACGTGTTTCACTCAC	20 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3050 GAACACACACACACACACACACACACCAACAAACAAAAGAAAAGAAAAAA	60 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3160 3170 3180 3190 ATTIGCATGAAGTCAGATAGCCAGAAAATTCCATTGCTGAATTGACTTGTCTTTTGCTAATAAACACATGGCCCTTTCCCAGATTATTCTCTAGCCCAAGCCCCACCTTTGTTAGGTTGAAATCCCTC	200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 ATTIATITICTICICAAAATGCCCATTATCCAAATGCAGAAAGCCAGTTATGCTGAAATTIGTCAAACTTAGACACCCTTGACAACTGCACTGTAGGCTCCTGTGTGCATACTGTGTTTC	3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3460 3470 3470 IGTGGGGGATGGGGGGTTAGTGTGTGTGTGTGTGTGTGTG	3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3610 3610 3610 3610 3610 3610 3610 361	3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3750 3750 TIGGCCCTGGGGTCTTCCGAGTGAGCTGGTTTAATACTGTGAGAATGAGGGGGGAATGAGGAAGGA	3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3890 3890 CCACATACCGTCTGCCAGTTTCTCCCAGTCTCTCTTTTTGCAGACCAAACCAAAGCTCTC	3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4030 ACTAGGAAATTTATCTGTTTTAAAACATTGCTTGCTTGCT
2790 2800 TGTAAGTGTTTAATTGTGCAAATTG	2920 2930 2940 GAACACTGAGATGACTTAGACTG	3050 3070 3080 ATTGCATGAAGTCAGATAGCCAGA	3200 3210 3220 ATTATTTCTTCTCAAAATGCCCA	3340 3350 3360 IGTGGGGATGGAGGTTAGTGT	3480 3490 3500 TTAGCTAGGCCAGGATCTAGTGAAA	3620 3630 36. TTGGCCCTGGGGTCTTCCGAGTGA	3760 3770 3 <sup>-</sup> GCACATACCGTCTTGCCAGTTTCT	3900 3910 ACTAGGAAATTTATCTGTTTTAAA
	2	-						

	10	20	30	40	50	60
AAAPAP	APAPTPTPEE	GPDAGWGDRI	PLE ILVQIFO	SLLVAADGPMF	FLGRAARVCR	RWQE
AASQPAL	70	80	90	100	110	120
	_WHTVTLSSP	PLVGRPAKGGV	KAEKKLLASL	EWLMPNRFSO	QLQRLTLIHWK	SQVH
PVLKLV	130	140	150	160	170	180
	GECCPRLTFL	KLSGCHGVTA	DALVMLAKAO	CCOLHSLDLOH	ISMVESTAVVS	FLEE
AGSRMR	190	200	210	220	230	240
	KLWLTYSSQT	TAILGALLGS	SCCPQLQVLEV	/STGINRNSIF	PLQLPVEALQK	GCPQ
LQVLRLI	250 _NLMWLPKPF	260 GRGVAPGPGF	270 PSLEELCLAS	280 SSTCNFVS		

FIG.23A

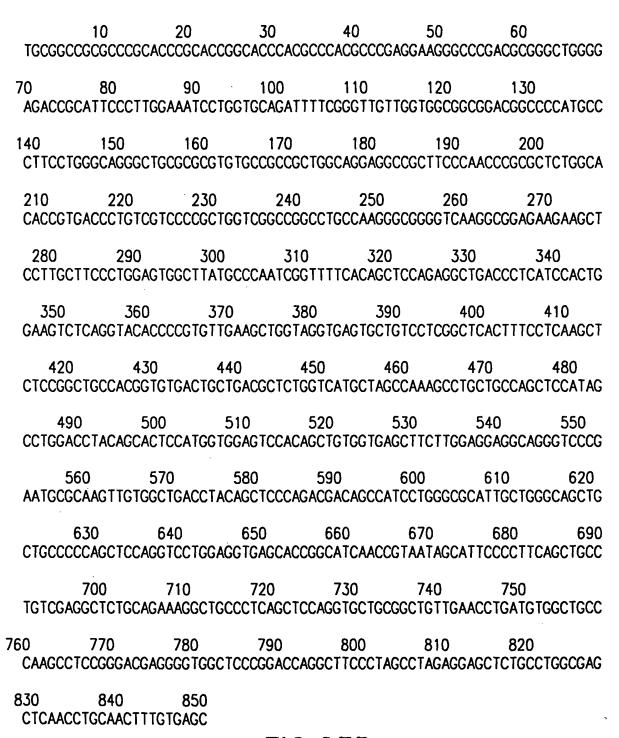


FIG.23B

10 QHCSQKDTAELI	20 LRGLSLWNHAEER	30 QKFFKYSVDE	40 EKSDKEAEVSE	50 EHSTG I THLPF	60 PEVMLSI
	80 CSQVSMKWSQLTK				
	140 MDEDADIDESEES				
	200 VRQILELCPNLEH				
	260 LGILTSHQSGFLK				
	320 PVSSENFTSPYVW				
	380 _RTSVCWQQHCAS				
	440 GSEKSDQETGRVL				
	500 /SACPSLNDEYFY				
	560 FHALYS+HISCV				

FIG.24A

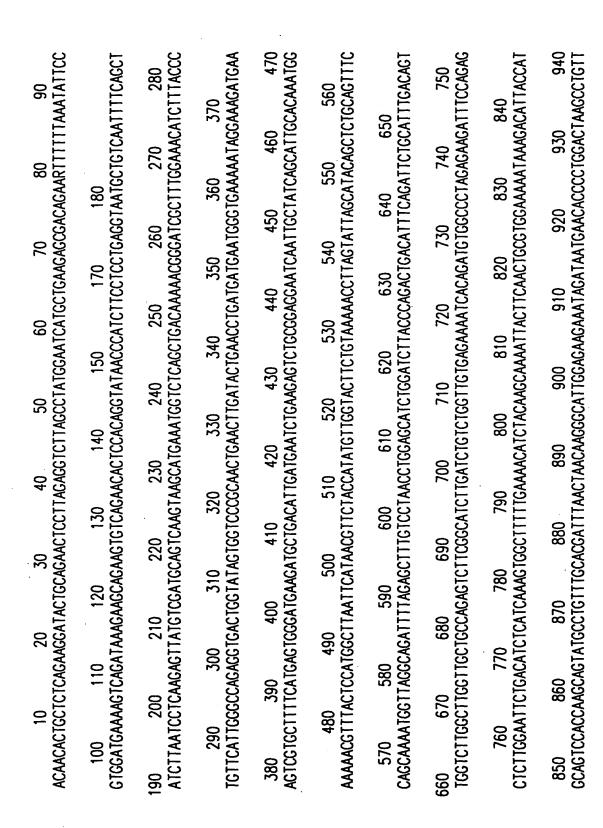


FIG.24B

1030	0	1220	1310	1410	1500	0	1690	
ATACAAATC	SACTAGTGT	TCATCACTC	.TCTGATCAAG	AGGCCTGCC	AATGATGAA	GCTGCCGCT	TTCTTGTGT	
970 980 990 1000 1010 1020 1030 CCTTATGTGGGGATGTGGAGATGGAGATGGAAATG	1040 1050 1060 1070 1080 1090 1100 1110 1120 TTGAAAGTCTTTGTGTAATGGAAACAGCATCCAACTTTAGTTGTTTTAGTAAGGACATTGTTGGACTAAGGACTAGTGT	30 1140 1150 1160 1170 1180 1190 1200 1210 1220 CTGTTGGCAGCATTGTCTTCCCAGCCTTTGCTTTGTTGTTGTTGTTGTAGGAACAGCTTTAAGAACTATGTCATCACTC	1250 1260 1270 1280 1290 1300 1310 AGAAAAGCAGCAAGGATTGCCTAGGGGAAAAGACTTAATTTACTTTGGGAGAAAAATCTGATCAAG	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 AGACTGGACGTGTATCTGGAGGGGGGGGTGTTTGACTCTGGGAGGGGGGGCTGCC	1440 1450 1460 1470 1480 1490 1500 CTCTGGTTGTCTTACTATAACTGCTGCAGGCCTGCATTTGGTTTCAGCATGTCCTTCTCTGAATGATGAA	1530 1540 1550 1560 1570 1580 1590 ATTAACGCTCCTCATGCTGATGCCAGAGAATTTGCAGTGTGGTTTTCGAGCCTGCTGCCCC	O 1630 1640 1650 1660 1670 1680 1690 ICTGATCTTTGTCTACTTAGCTGAGCGTTTCTTTCATGCACTTTACTCATAGCACATTTCTTGTG	1770
1010 GAAGATACTGT	1100 11 AGTAAGGACATT	1200 AGGAACAGCTT	1290 ATTTACTTTGG	0 1390 TCAGGGTTTTGA	1480 GGTTTCAGCAT	1570 15 ATTTGCAGTGTGG	1670 ATGCACTTTAC	1760
1000	1090	1190	1280	1370 1380	1470	1560	1660	1750
TGCCTGATATT	:TGGTTGTTTTA	TTTTGTTGTAC	GAAAGACTTA	SACAGACCATGGTCT	CTGCAGGATTT	GGATGCCAGAAT	GCTTTCTTTC	
990	1080	) 1180	1270	1360 13	1460	1550	) 1650	1740
ICCTGAAGATT	TGTTCCACCTC	STGGTCACTCA	ATTGCCTAGGG	TTATCAGATCAC	CTGGTGCAGGC	TACCCCCAGTG	TTAGCTGAGCA(	
980	1070	0 1170	1260	1350 1.	1450	1540	0 1640	1730
CCATCTTACA	CAACTTTAGT	TTTGCGTATTG	CAAGGACTAG	TATCTGGATGT	CTTACTATAA	CTCATGCTGA	TCTACTTCATT	
970 TCCTTATGTGT	1060 SAAACAGCATO	50 1160 CTTCTCCAGCCT		1340 TTTCTCAGTT	1440 TCTCTGGTTGT	1530 CATTAACGGTO	20 1630 TCTGATCTTTGT	1720
950 960	1050	1140 1156	1230 1240	1330	1420 1430	1510 1520	JO 1610 162	1710
TCTTCTGAGAATTTCACTTCT	TTGTGTAATG	AGCAGCATTGTGC	CCAGAATCTTCTGCAATGTG1	TGTACTTCTG	TTATTTGGAGCACCTTAATCT	TACTTTTACTACTGTGACAAC	CTGCCGAATGACCCTTGACTT	
950	1040	1130 11	1230	1320	1420	1510	1600 16	1700
TCTTCTGAGA/	TTGAAAGTCT	CTGTTGGCAG	CCAGAATCTT	AGACTGGACG	TTATTTGGAGC	TACTTTTACT	CTGGCGAATG	
		<del>-</del>					-	

FIG.24C

TAACCATCCCTTTTTGAGCGTGACTTGTTTTGGGCCCATTNYTTACAACTTCAGAAATCTTAATTACCAGTGRATTGTAATGGTTG

10 RVTSGCGLARGSS	20 SAMVF SNNDEGL	30 . INKKLPKELI	40 LLRIFSFLDIV	50 TLCRCAQISKA	60 AWNILA
70 LDGSNWQRIDLFN	80 NFQIDVEGRVVE				
130 EHLNLNGCTKITE	140 OSTCYSLSRFCS				180 NLSWC
190 DQITKDGIEALVE	200 RGCRGLKALLLF	210 RGCTQLEDEAL	220 _KHIQNYCHEL	230 VSLNLQSCSR	240 I TDEGV
250 VQICRGCHRLQAL	260 .CLSGCSNLTDA				
310 ELEKMDLEXCILI	320 TDSTL IQLS IH				
370 ELDNCLL I TDVAL			400 FRAGIKRMRAQ		
430 TAVAGSGQRLCRO	440 CCVIL+QQLPGP	450 PKG++GILSSF	460 RRPESS*PTPP	470 SPNLL I LHWEF	480 RHLQFP
490 NRHLSRFKNGEDK	500 KKGF I SN I +HH I				
550 ILKTDQTGPASKY	'INCVQ+				

FIG.25A

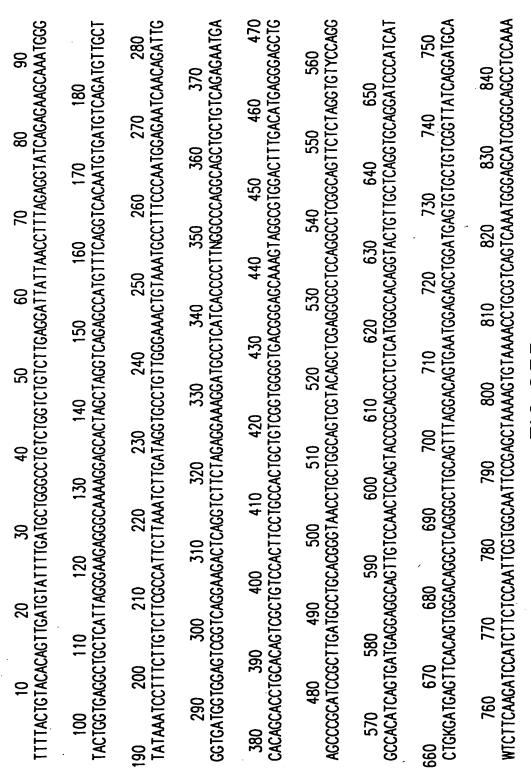


FIG.25B

850 860 870 880 890 900 910 920 930 940	950 960 970 980 990 1000 1010 1020 1030	1040 1050 1060 1070 1080 1090 1100 1110 1120	30 1140 1150 1160 1170 1180 1190 1200 1210 1220	1230 1240 1250 1260 1270 1280 1290 1300 1310	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410	1420 1430 1440 1450 1460 1470 1480 1490 1500	1510 1520 1530 1540 1550 1560 1570 1580 1590	10 1610 1620 1630 1640 1650 1660 1670 1680
ATTIGCAGTCGCGGACAGTTCAAACCCAGGCCTGTAAGAGAGCCATCTGTGAGGTTGCTGCAAACCCGAAAGGCAGAGAGCCTGTAGCCGGTGAC	AGCCCCTGCATATCTGCACCACCTTCATCGTGATACGTGAGCTGCAAGTTGAGGCTCACAAGCTCATGGCAGTAATTCTGAATGTG	TTTCAGAGCTTCATCTTCTAACTGTGTGCAGCCCTCAGGAGCGTTTCAGGCCTCGACAACCTCGCACCAGTGCCTCGATGCCATCCTTC	GTGATCTGATCACACCAAGAGAGGTTCAGGTACTCCAGGCGCCCCTCCACCCCTTCAAGGAGCTGTTTGTAATAGACACAGG	AGGICAGAWCCAGATGITTCAGCTTGGAACAGAATCTGCTAAAGACGCTGTGGCTGTGAGTTTTTGTGCATCCATTGAGGTTCAAATG	TTCAATGTTTCGGCAGGTCTTCAAGGAGGAATCCCCAACACACATGCAGCCTCGCAAGCTGCGCTTCCTCAGGAATCCAAGG	CATCGCTTCGAGATATTTCCACCCACTCGACCCTCTACATTTGAAAAGATCTATTCTTTGCCAGTTGCTTCCATCCA	AGATGTTCCAAGCCTTGGAAATCTGTGCACAAAGTTACTATATCCAAGAAGGAAAATATTCTTAACAGAAGTTCTTTGGGTAACTT	TTGTTAATAAGCCCTTCATCATTGTTTGAGAAACCATGGCCGAAGAGCCGCGAGCCCACAGCCCGAAGTCACACGGC
850 ATTTG(	AGCCC	104( TTTCAC	1130 GTGATC	1; AGGTC/	1320 TTCAA	CATCG	151( AGATG	1600 TTGT

FIG.25C

10 MSPVFPMLTVLT			40 THRATESNSQT		
70	80	90	100	110	120
FSSHYGSENSMS	YTMWNLAGVPNV	/FPSSGDFTQ1	TAVFRTYGTW	/DQCPSASLPF	KRTPPN
130 FQSQDYVELTFE	140 QQVYPTAVHVLE			170 INPPAEVRWE	180 LWSERP
190 TKVNASQARQFK	200 PCIKQINFPTNL				
250 IDMND IEDDAYA	260 EKDGCGMDSLNK	270 KKFSSAVLGEO		290 PYEL IQL I LNH	300 HLTLPDL
310 CRLAQTCKLLSQ	320 HCCDPLQYIHLN				360 VTGNRGF
370 ISVAGFSRFLKV	380 CGSELVRLELSO			410 ALNLSSCDKI	420 PPQAFN
430 HIAKLCSLKRLV	440 LYRTKVEQTALL	450 SILNFCSELO	460 QHLSLGSCVMI	470 EDYDVIASM	480 IGAKCKK
490 LRTLDLWRCKNI	500 TENGIAELASGO				
550 TANRSVCDTDID	560 ELACNCTRLQQL	570 .DILGTRMVSF	580 PASLRKLLESO		600 CSQIDN
610 RAVLELNASFPK	620 XVF [KKSFTQ				

FIG.26A

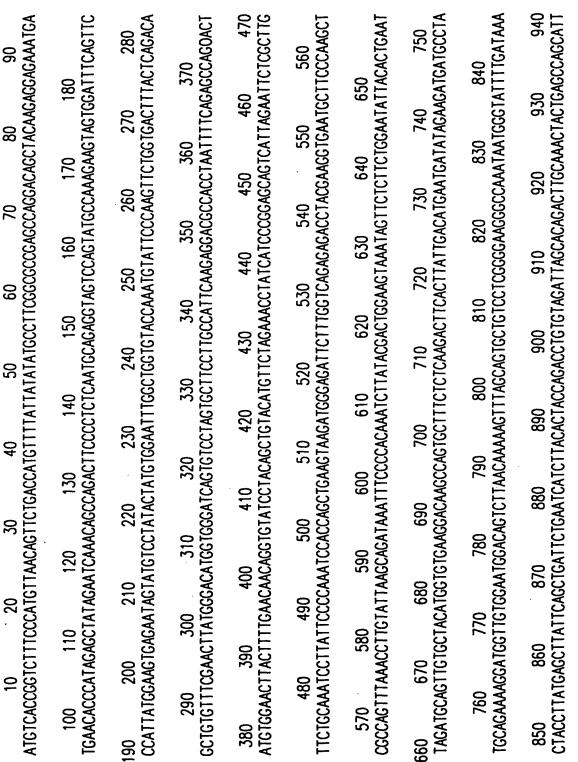


FIG.26B

ည္	≨	ဥ	₹	10 T	F	ള	ဥ	Ħ	
	Ś	220 AAA	3TA(	14 TGA	ည်	CTC	1690 3CAGC	CTG	
503	SAT	1; CTT,	5 A A A	ATG	150 ACT	CAG	¥GC ∓	80 CTT	
101	120 3TG	ည်	45A	O ATG	AGA	1590 ACACC	TAC TAC	17 GTC	
CAG	1	Q 20	8A	140 ACT	AGC	CA 1	85 13	161	
020 CTA	AGG	12. TCT	0 TAT	AAG	490 AAT	CTG	1680 CCAGG	0 TGA	<u>₹</u>
	55 TS	₩	130 CTC	116	100	88 AGA	GTA	177 ACT	Z S
GAA	110	200	<u> </u>	390 16A	GAA	1580 ACCAGA	0 ATT	II.	860 ACT
5 CTG	199	120 GTG	(CTI	15 Z	85 75 75	)TT	167 ICT≜	) II	- E
5 []	0 0 0 0 0 0	(GA1	29C	1610	14 TAC	3760	SS.	176( ATC)	SAG
SACI	11	) CTG/		380 46.T	4TA]	1570 CCGCGTG(	116(	AAG.	850 AAA
00 10A(	36A	19( 117	SCT	360,	70 AGA	CAC	166( SAA	GTA	₹
1000 AGATGA	SCA	TTA	280 CAG	TA	14 GTA	O S	GAT	750 CTT	CAT
ACT	109 GTT	AAG	1 ATG	70 AGT	GAT	1560 SAGAGCA	ATT	AAT	340 GTT
AAA	101	180 TAG	GTT	13	06 66	25	650 (CAC	301	18 VACI
600	, ATC	- [55]	£ 2,33 2,33 2,33 3,33 3,33 3,33 3,33 3,3	SCAC	146 131	75	AC/	740 21CC	SA S
ACT(	108C	ACT.	71	30 TCA(	3AT(	1550 CCCAAC	TGA(	AAA –	2 2 2 2 3 1 3
O CAT	AGG	54 54	Ğ.	13 13	O CTG	ÿ	540 CTG	AGA	25 57
86 SA	TAG	AAT	90 V	AGA	145 ACC	199	101	30 TTA	Ş
<u> </u>	02 S & 93	CTT	12 TCA	0 11C	99	1540 GCCTG	ATC	100	20 VA TG
) ATC	166	60 TTX	)CT1	135 CTG	CTC	)TTG	330 VTAC	7295	182 757
976 37C	SCAC	= 8	90 X	CI.	1440 1450 1460 1470 1480 1490 1500 IGTAAAAAACTCCGGACCCTGGATCTGGGAGTGTAAGAATATTACTGAGAATGGAATAGCAGAACTGGCTT	3ACC	16 CTA/	222	SAA(
CAC	060 CTT(	CAG	121	0 1GA		1530 AGCTTG	CAG	17 AAG	O CTA
ATC	TAT	50 11G	Š	134	510	GAG	20 11A	199.	181 GTG
960 \TAC	ATT	110	O CTA	SS	1430 CCAA(	CAG	16 7T	. AA1	[29 [29]
ŞÇ	)50 )TI	WTT	124 AAG	\ <u>\</u>	- SAGC	1520 TACTO	701	17 X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2010	5 55	04 11G	[GA]	333		4CT/	¥.⊡ ¥AA(	3AA(	180 74
950 960 970 980 990 1000 1010 1020 1030 GCTGTGATCCTGCAATACATCCACCTCAATCTGCAACAAAACTAGATGACACTTCTCTGGAATTTCTACAGTCTCGCTGCAC	1040 1050 1060 1070 1080 1090 1100 1110 1120 TCTIGTCCAGTGGCTTAATTTATCTTGGACTGGCAATAGAGGCTTCATCTCTGTTGCAGGATTTAGCAGGTTTCTGAAGGTTTGTGGATCCGAA	30 1140 1150 1160 1170 1180 1190 1200 1210 1220 TTAGTACGCCTTGAATTGTCTTGCCTTGCTTAGAAGTTGCTTAGAAGTTATTTCTGAGATGTGCCAAATCTACAGGCCTTAAATC	1230 1240 1250 1260 1270 1280 1290 1300 1310 TCTCCTGTGAAGCTACCACCTCCAAGCTACCAAAAGTAGA	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 GCAAACAGCACTGCTCAGCATTTTGAACTTCTGTTCAGAGCTTCAGCTTTAGGCAGTTGTGTCATGATGAAGACTATGATGTGATA	1420 1430 GCTAGCATGATAGGAGCCAAG1	1510 1520 1530 1540 1550 1560 1570 1580 1590 CTGGGTGTCCACTACTGGAGGAGCTTGACCTTGGCTGCCCAACTCTGCAGAGCAGCACCGGGTGCTTCACCAGACTGGCACACCAGCTCCC	00 1610 1620 1630 1640 1650 1660 1670 1680 1690 AAACTTGCAAAAACTCTTTCTTACAGCTAATAGATCTGTGTGACAGACA	1700 1710 1720 1730 1740 1750 1760 1770 1780 GACATATTAGGAACAAGAAGTGCGGCATCCTTAAGAAAACTCCTGGAATCTTGTAAAAGATCTTTACTTGATGTGTGTCTTTTTT	1790 1800 1810 1820 1830 1840 1850 1860 CCCAGATTGATAACAGAGCTGTGCTAGAACTGCAAGCTTTCCAAAAAGTGTTCATAAAAAAGAGCTTTACTCAGTGA
TGA]	40 3TC	TACC	123( STC(	ACAC	3CA]	1510 GGGTG1	116	170 TAT	GAT
CTG	10. CTT	J AG:	CTC	320 CAA	CTA	15 TGG(	AAC	ACA.	26 26 26
Ō	=	130 17/	=	– ত	Ö	ပ	600 AA	၁	- O

FIG.26C

10	20	30	40	50	60
MQLVPDIEFKIT	YTRSPDGDGVG	NSYTEDNDDD	SKMADLLSYFO	XXQLTFQESVL	KLCQPE
70	80	90	100	110	120
LESSQIHISVLF	PMEVLMYIFRWV	VSSDLDLRSLI	EQLSLVCRGFY	(ICARDPE IWF	RLACLKV
130	140	150	160	170	180
WGRSCIKLVPYT	SWREMFLERPR	VRFDGVYISK	TTYIRQGEQSL	.DGFYRAWHQ\	EYYRY I
190	200	210	220	230	240
RFFPDGHVMMLT	TPEEPQSIVPR	LRTRNTRTDA	ILLGHYRLSQD	OTDNQTKVFAN	/ITKKKE
250	260	270	280	290	300
EKPLDYKYRYFR	RVPVQEADQSF	HVGLQLCSSGI	HQRFNKLIWIH	HSCH I TYKS1	IGETAVS
310 AFE IDKMYTPLF	320 FARVRSYTAFS	ERPL			

FIG.27A

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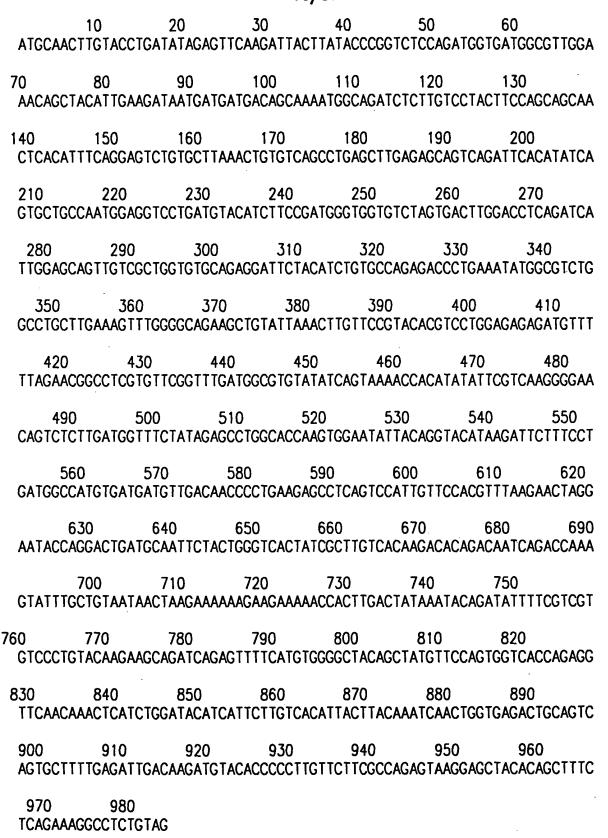


FIG.27B

AALDPDI	10	20	30	40	50	60
	_ENDDFFVRK	Tgafhanpyvl	_RAFEDFRKF	SEQDDSVERD	I ILQCREGELV	LPD
LEKDDM	70	80	90	100	110	120
	I VRR I PAQKKI	EVPLSGAPDRY	YHPVPFPEPW	TLPPE I QAKFI	LCVLERTCPSK	EKS
NSCRIL	130	140	150	160	170	180
	VPSYRQKKDDI	MLTRKIQSWKI	GTTVPPISF	TPGPCSEADLI	KRWEAIREASR	LRH
KKRLMVE	190	200	210	220	230	240
	ERLFQKIYGEI	VGSKSMSDVSA	AEDVQNLRQLI	RYEEMQKIKSO	QLKEQDQKWQD	DLA
KWKDRR	250 KSYTSDLQK					

FIG.28A

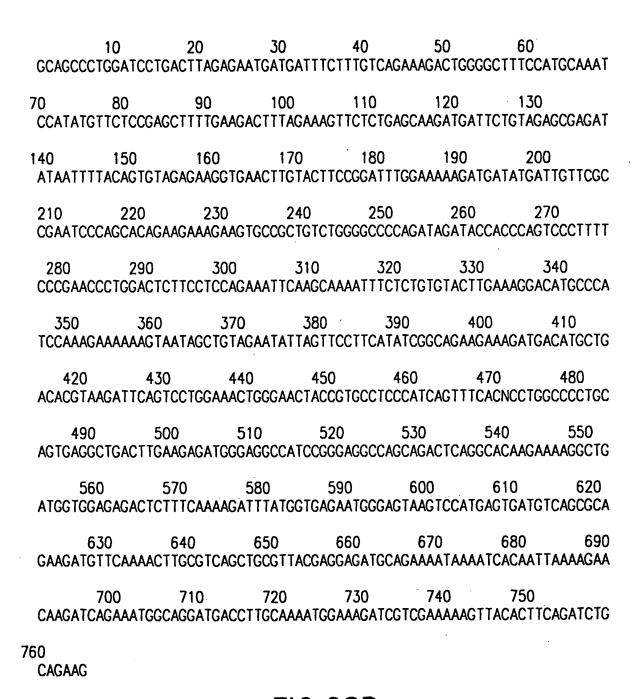
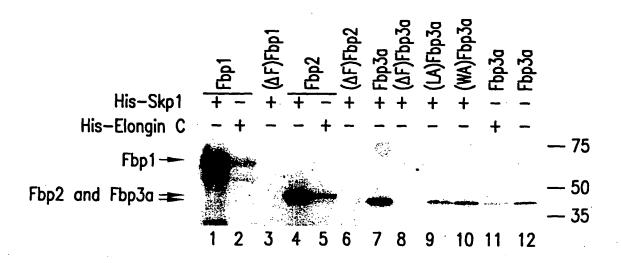
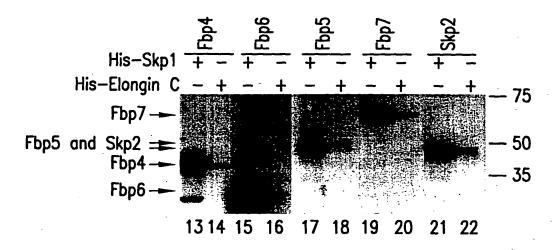
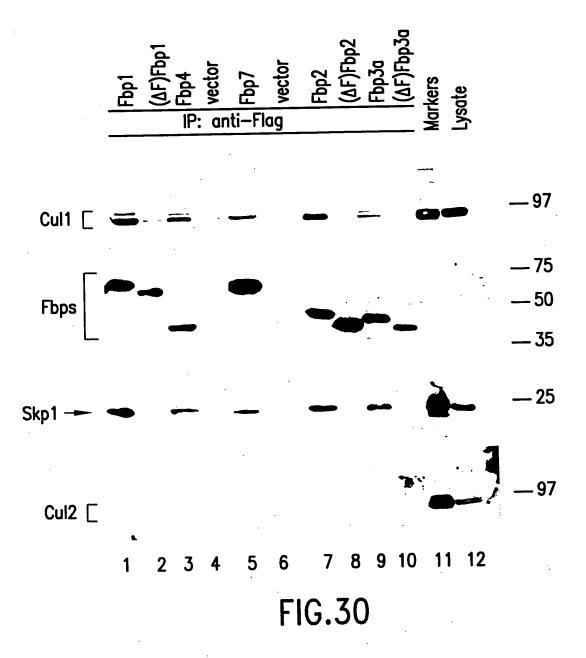


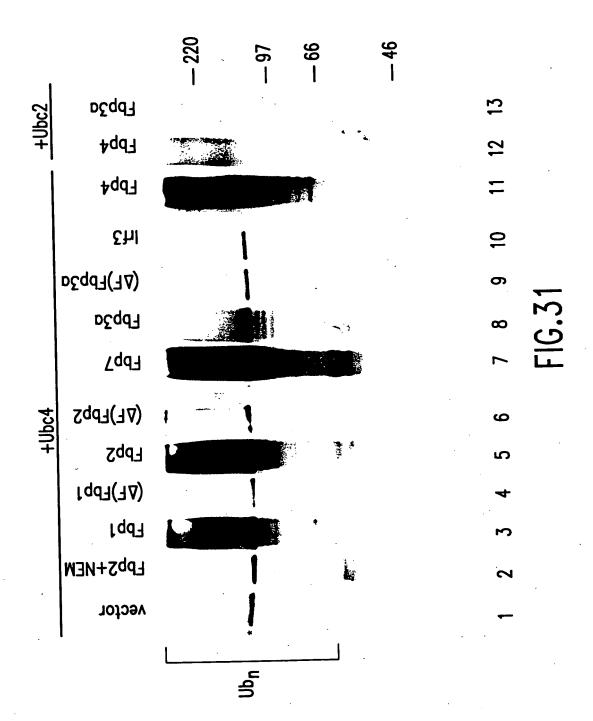
FIG.28B





**FIG.29** 





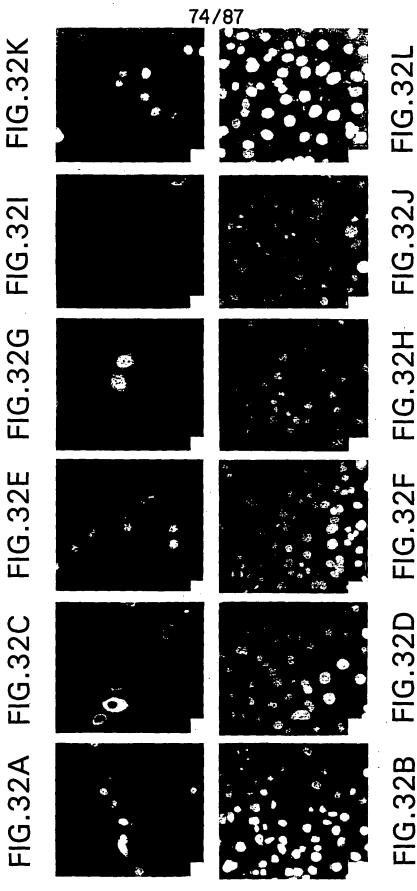


FIG.32L FIG.32J FIG.32H FIG.32F FIG.32D FIG.32B

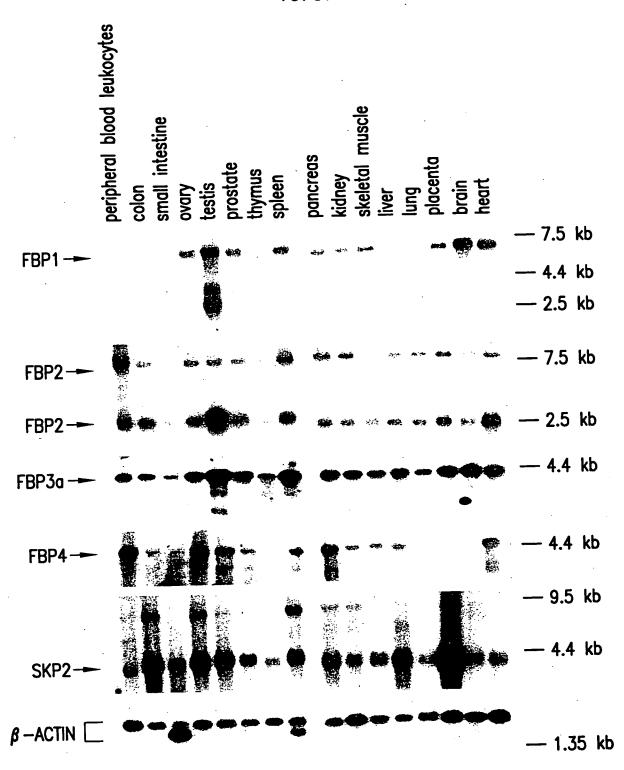


FIG.33

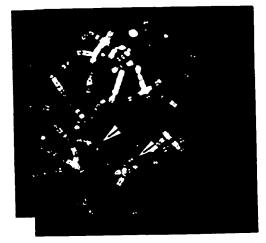


FIG.34A



FIG.34B



FIG.34C

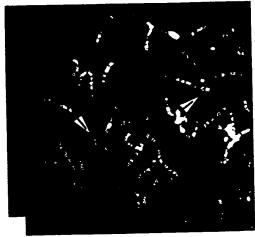
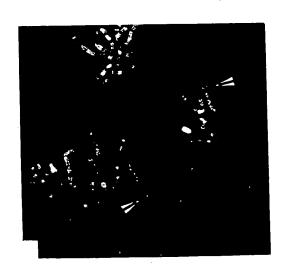


FIG.34D



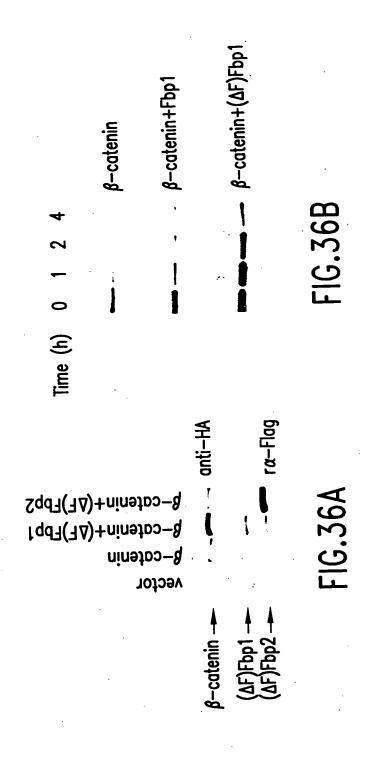


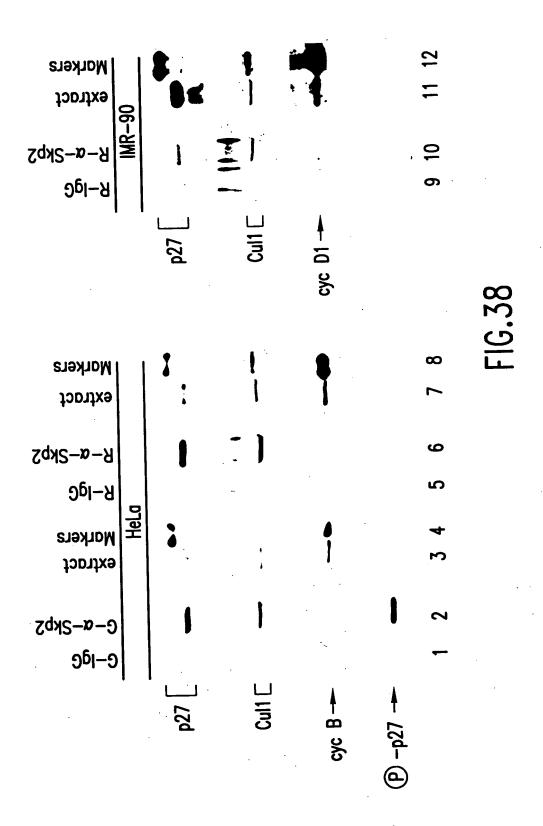
$$\beta$$
-catenin + + + + +   
 $\beta$ -catenin - - -  $\alpha$  anti- $\beta$ -catenin

Fbp1 - -  $\alpha$   $\alpha$ -Flag

IP  $\alpha$ -Flag lysates

## FIG.35A







16.39A

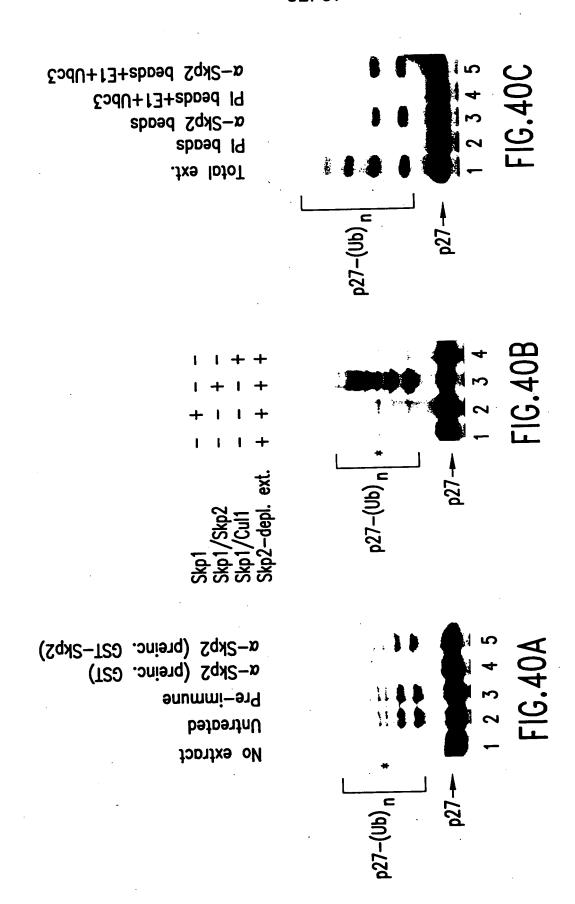
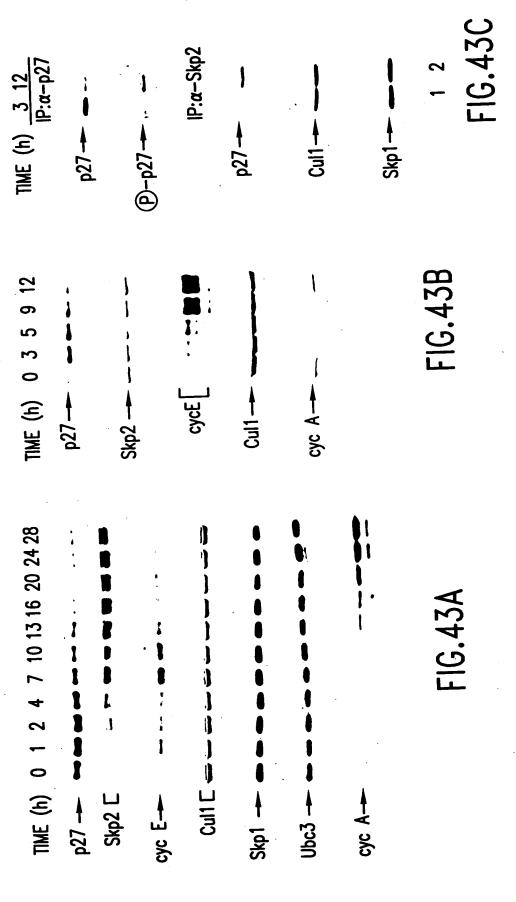


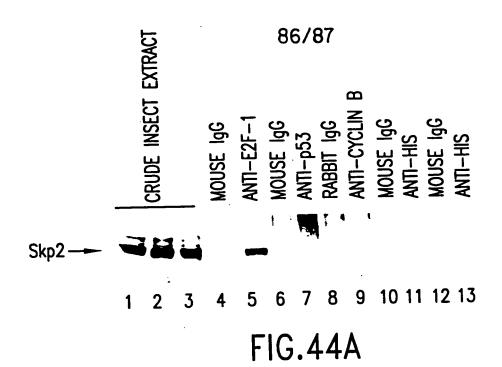


FIG.41B

exog. p27 endog. p27  $\Delta F$ )Fbp1  $\Delta F$ )Fbp1  $\Delta F$ )Skp2  $\Delta F$ 

	TN ZA	:			16	
+Aphidicolin	CF4 NT	1	·		15	
	UNTRANSFECTED				4	
	UNTRANSFECTED	j	1		13	
+Hydroxyurea	Th 2a			(X.±	12	
	Сғч ит			•	=	
	UNTRANSFECTED				9	
	UNTRANSFECTED		·		တ	FIG.42
	TO SA	•		1	œ	E
	Cth CT			í	7	
	TN 2A			1	9	
	Ctd NT	i		i ·	ည	
	TO SA			İ	4	
	CF4 CT			•	3	
	TN 2A	i			2	
	СГЧ ИТ				-	
٠		1		1		
		Skp2		p27		





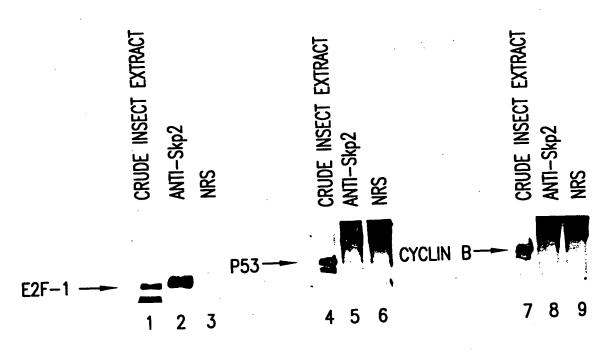


FIG.44B

CRUDE INSECT EXTRACT
ANTI—Skp2
NRS
ANTI—FLAG
RABBIT 1gG

E2F-1 -- 1 2 3 4 5 6 FIG.44C